

FM/AM RECEIVER

# KR-A4060/A5060

## SERVICE MANUAL

KENWOOD

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B51-4945-00 (K)3891

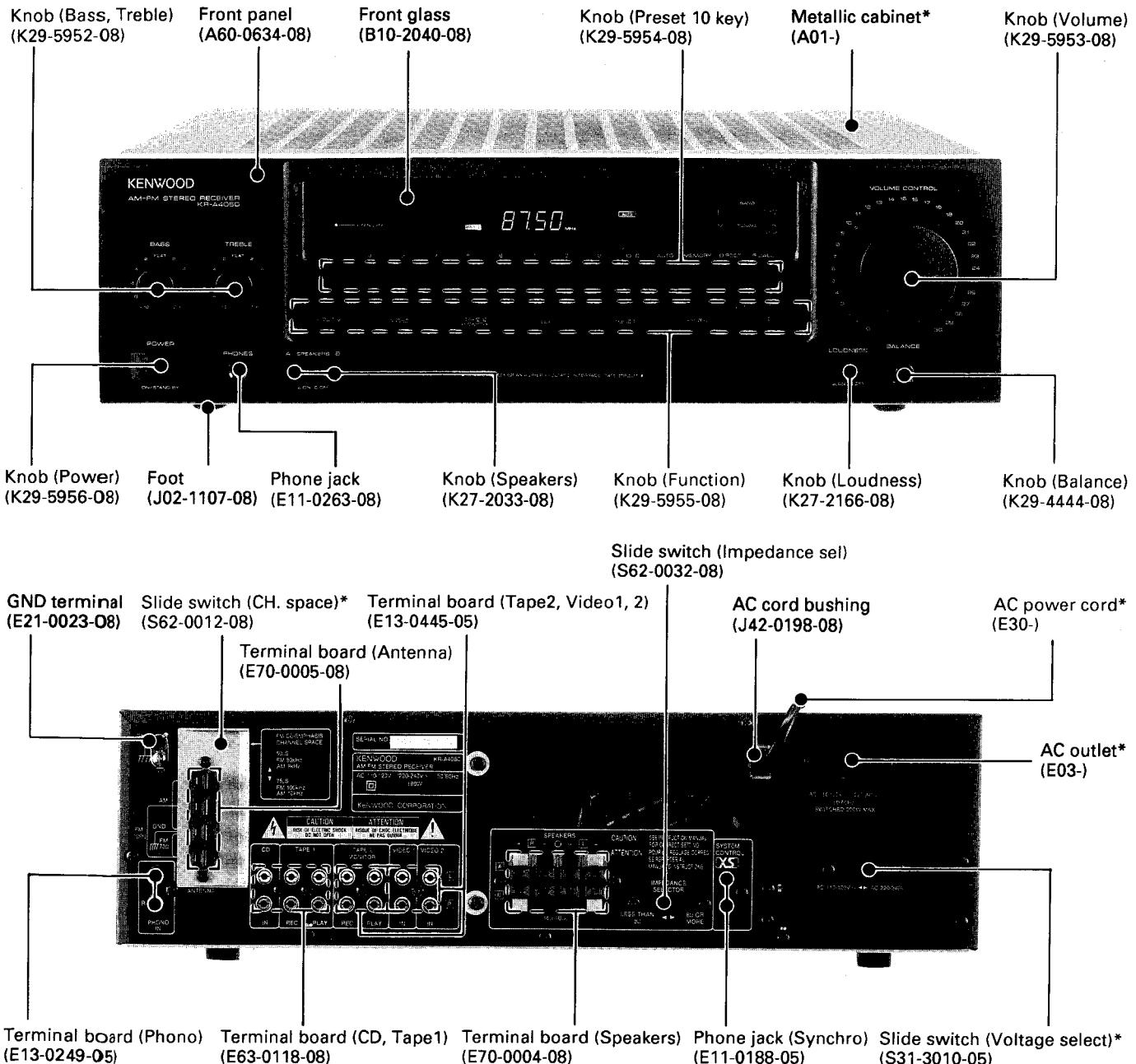


Photo is KR-A4060 (M type).

\*Refer to parts list on page 35.

# KR-A4060/A5060

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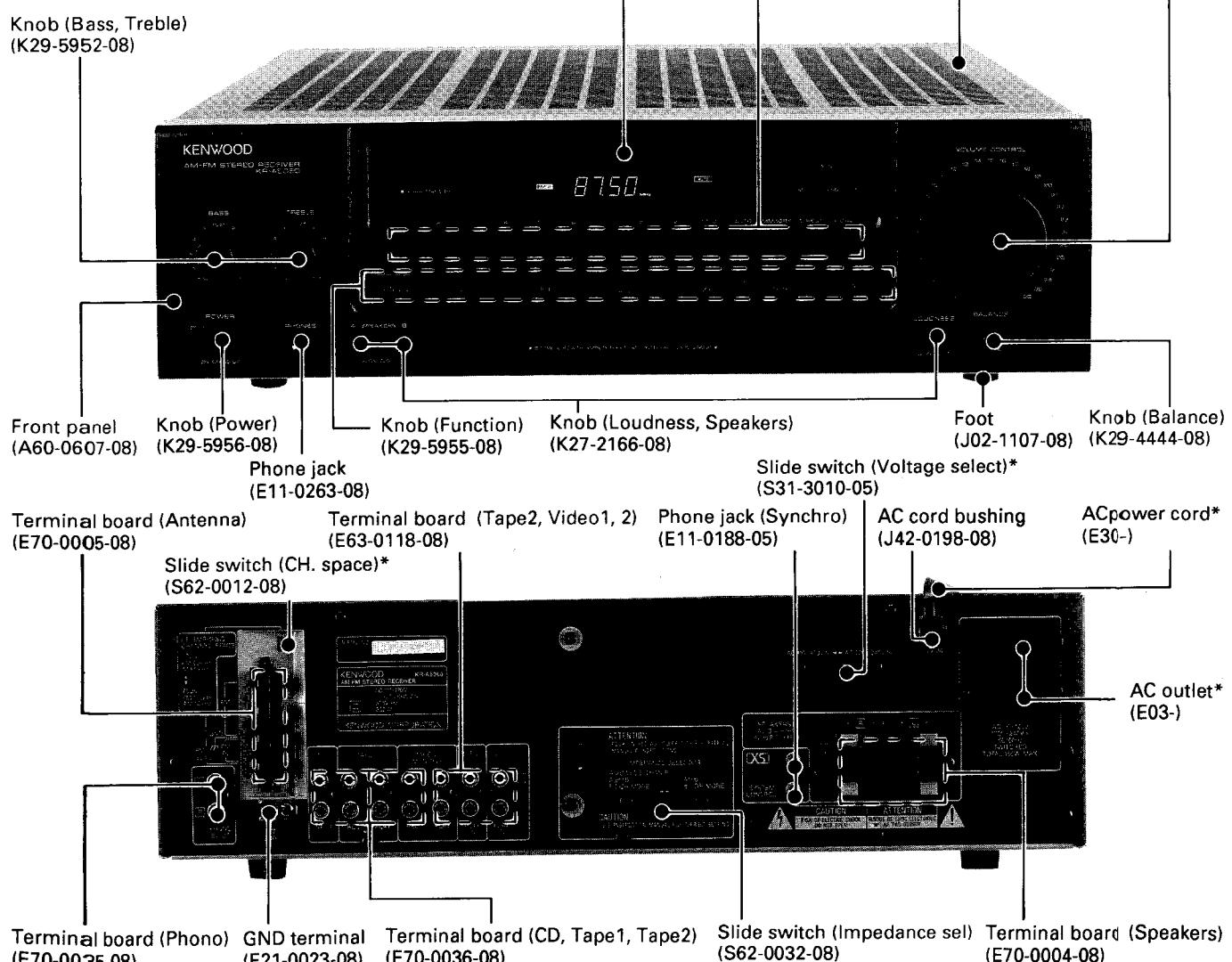
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### EXTERNAL VIEW : Photo is KR-A5060 (M type).

\*Refer to parts list on page 59.



FM/AM RECEIVER

KR-A5060

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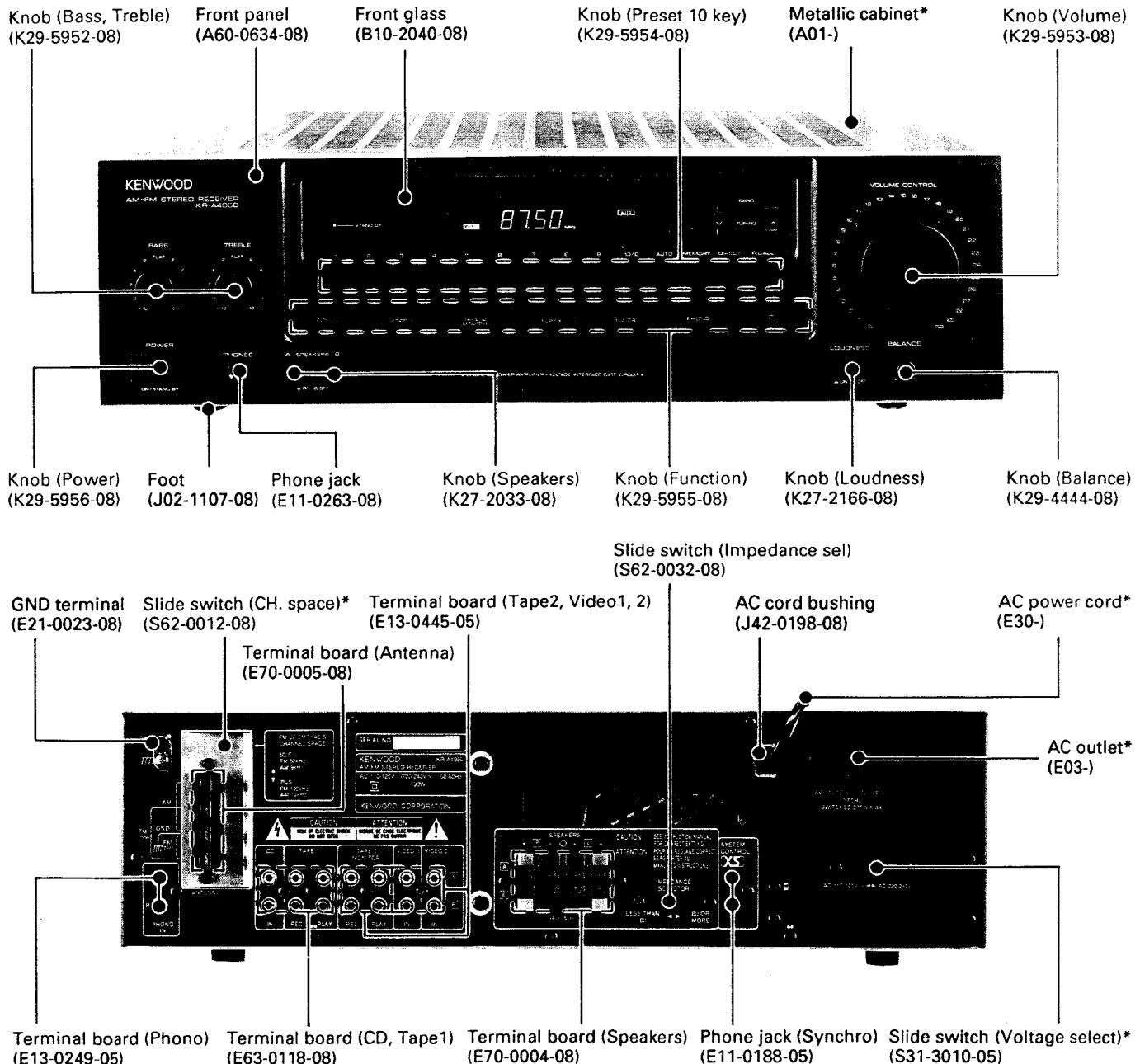
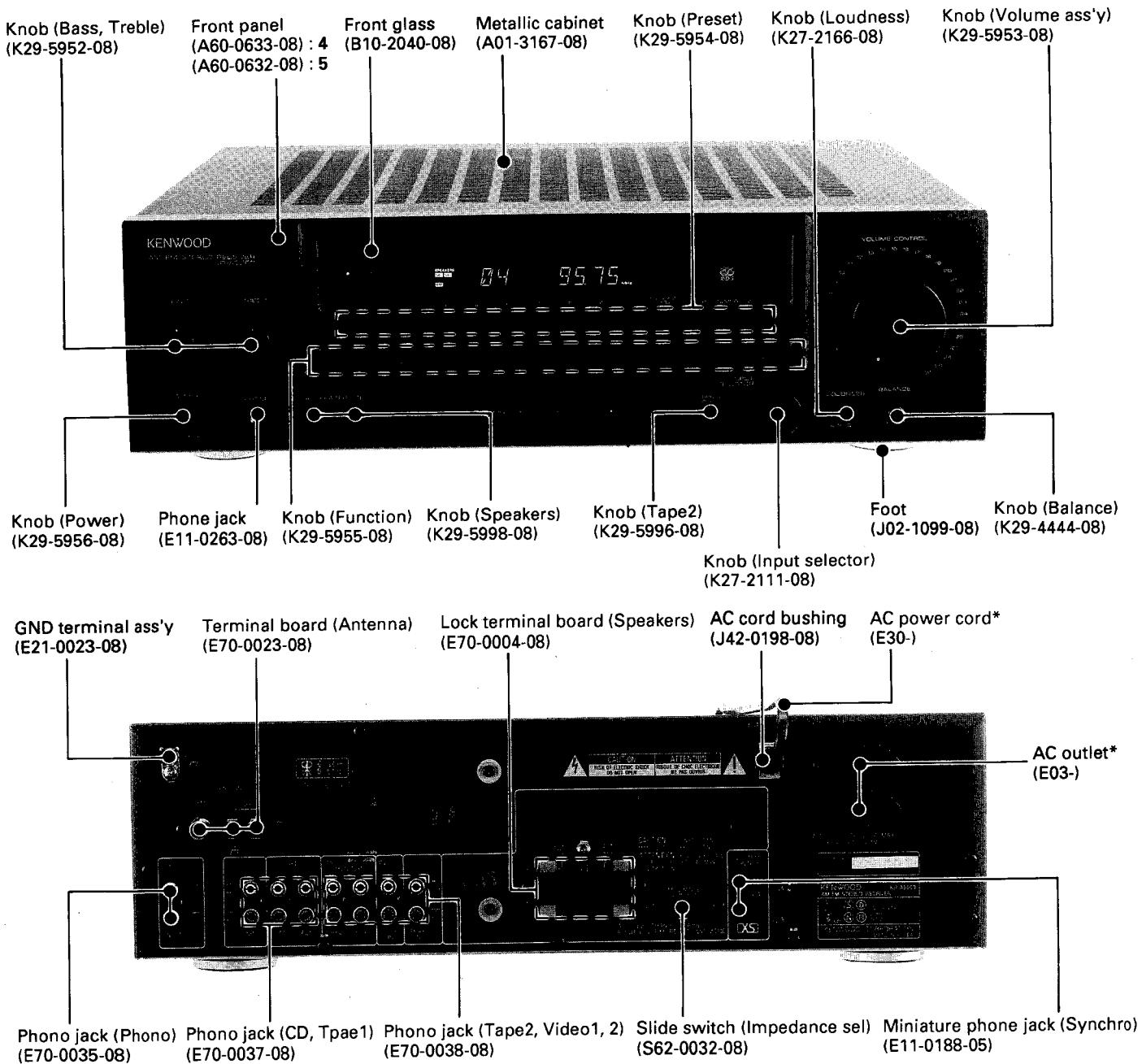


Photo is KR-A4060 (M type).

\*Refer to parts list on page 35.

# KR-A4060/A5060

## EXTERNAL VIEW : KR-A5060



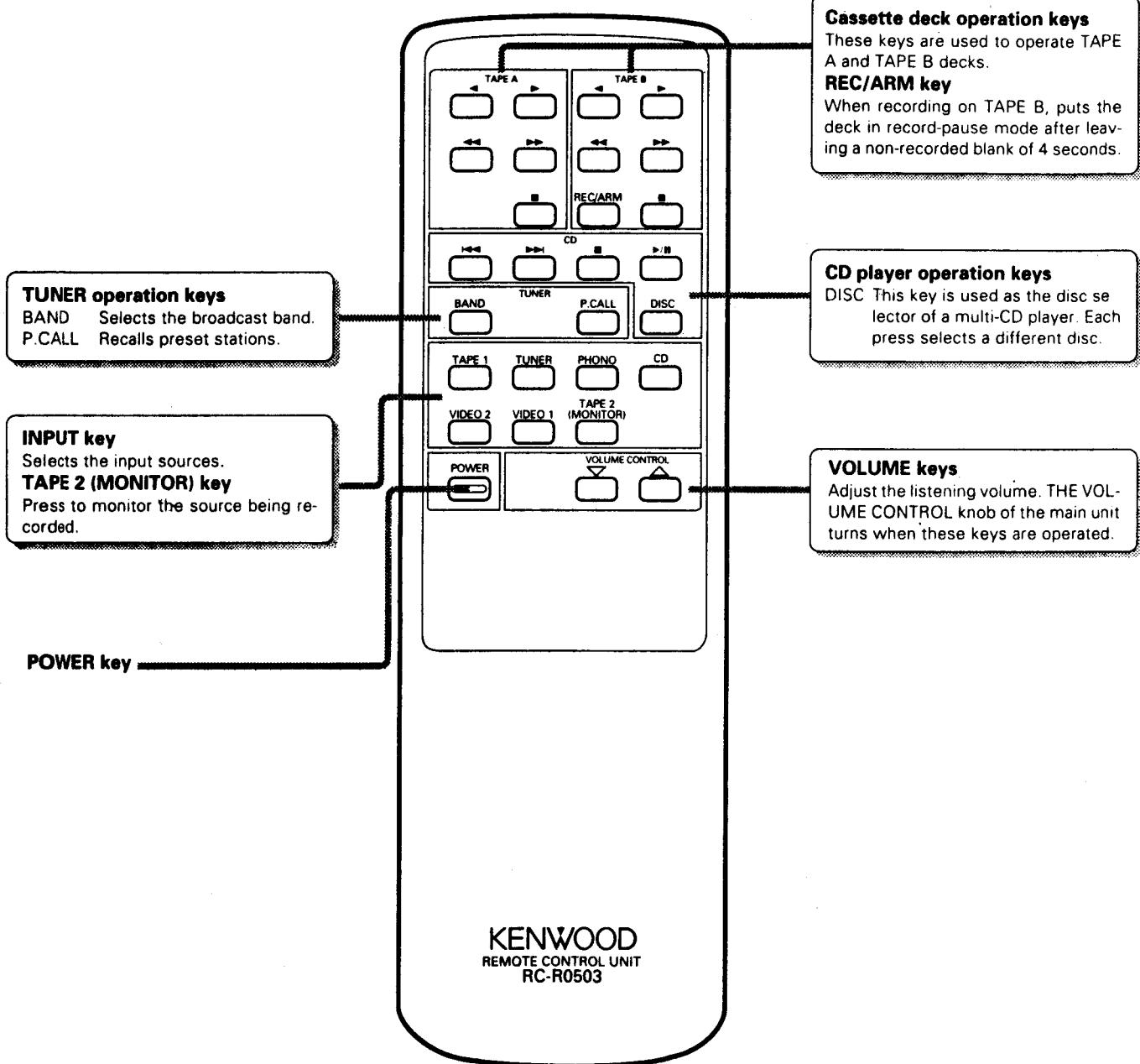
4 : KR-A4060  
5 : KR-A5060

### Photo

\*Refer to parts list on page 83.

# KR-A4060/A5060

## REMOTE CONTROL OPERATION

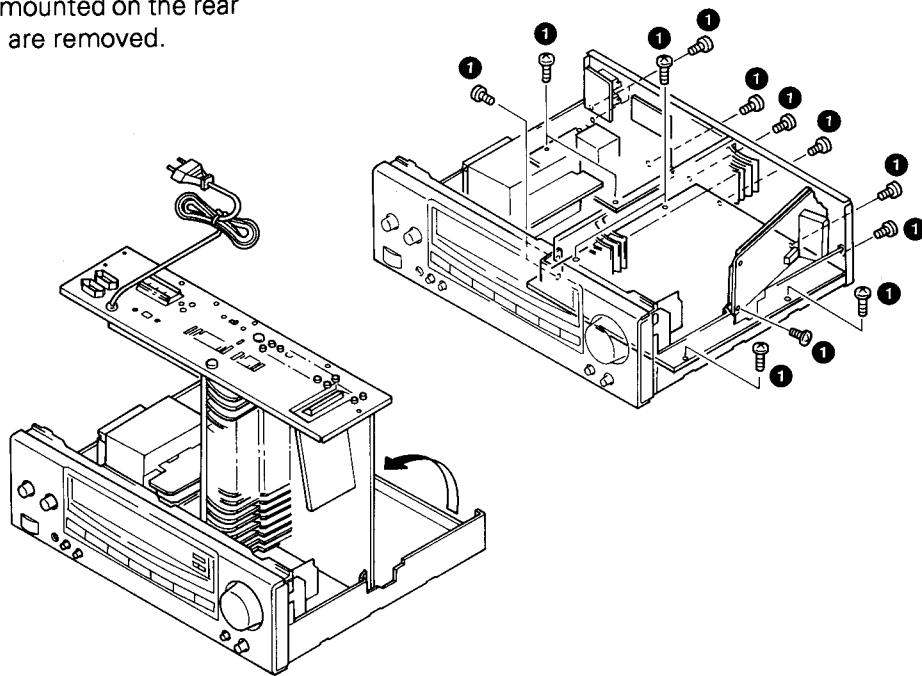


Model: RC-R0503  
Infrared ray system

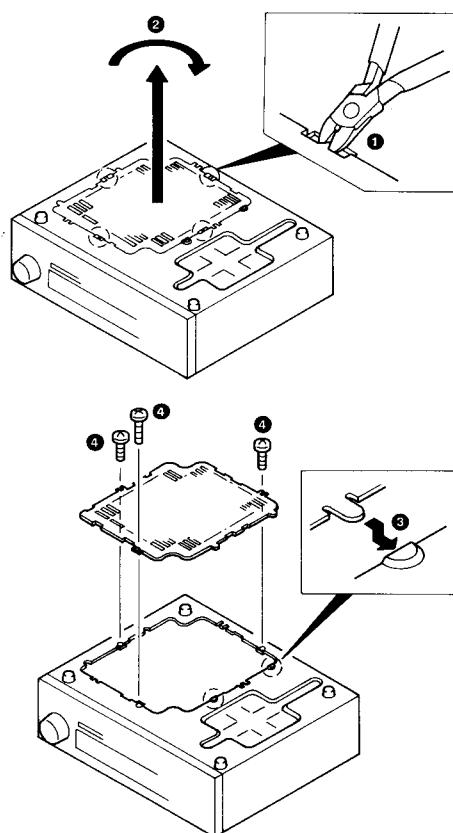
# KR-A4060/A5060

## DISASSEMBLY FOR REPAIR

1. Repair can be carried out with the Main (AUDIO) PCB and the power supply PCB mounted on the rear panel when the 17 screws (①) are removed.



2. Cut the 4 places with a pair of nippers (①), and remove the bottom panel from chassis.
3. Move the unit holder from the current position to the open mounting position.
4. Rotate the lid, which was cut off, by 180° degrees (②).
5. Insert the lids in the 2 places of the chassis (③), and mount them with the 3 screws (④).



# KR-A4060/A5060

## CIRCUIT DESCRIPTION

### 1. Setting

#### 1-1. Initial setting

##### • Function initial setting

Last channel memory .....	FM : 87.5MHz
K type .....	AM : 530kHz
E type .....	AM : 531kHz
Tuning mode .....	Auto
Band .....	FM1
Input selector .....	Tuner
VIDEO monitor .....	VIDEO 1
TAPE 2 monitor .....	OFF
Muting .....	OFF
Power .....	OFF

**Frequency memorized for each PRESET channel when the memory is cleared (Test frequency)**

Band	FM1 (MHz)		FM2 (MHz)		AM (kHz)	
	type	K	E	K	E	K
1ch	87.5	87.5	87.5	87.5	530	531
2ch	89.1	89.1	87.5	87.5	630	630
3ch	90.0	90.0	87.5	87.5	990	990
4ch	92.0	92.0	87.5	87.5	1440	1440
5ch	94.0	94.0	87.5	87.5	1610	1602
6ch	98.0	98.0	87.5	87.5	1700*	531
7ch	100.1	100.1	87.5	87.5	530	531
8ch	102.0	102.0	87.5	87.5	530	531
9ch	106.0	106.0	87.5	87.5	530	531
10ch	108.0	108.0	87.5	87.5	530	531

\*1700kHz is set for WIDE only.

##### • μ-com output port initial setting

[Any figure in ( ) is a pin number.]

POWER (24) .....	"L"
MUTE 1 (25) .....	"H"
MUTE 2 (26) .....	"H"
VRDOWN (1) .....	"L"
VRUP (63) .....	"L"

**The initial setting is performed in a following event**

1. When backup memory data is destroyed when reset is applied to the μ-com.
2. When the power cord is plugged in to the AC wall outlet while pressing the TUNER key.

#### 1-2. Test mode setting

##### • Method of entering the test mode

While pressing the CD key, plug the power cord to the AC wall outlet. When the test mode is entered, the FL tube display all lights up.

##### • Method of canceling the test mode

1. Unplug the power cord from the AC wall outlet once.
2. Send the reset signal to the RESET pin or some other means to reset the μ-com.

##### • Contents of test mode

1. When the test mode is entered, the FL tube display all lights up. This all lighting continues unless a effective remote control serial code or the test mode is canceled.
2. The test frequency is stored in memory for each preset channel. (For each frequency to be stored in memory, refer to its associated listing.)
3. The test mode is different from the normal mode in the following operations :

When the tuner UP or DOWN key is pressed when a mode other than TUNER has been selected, the potentiometer is increased or decreased.

Once one of the these keys has been pressed, the operation continues even if the key is released.

It stops automatically if the AUTO or POWER key is pressed or if the AUTO or POWER key is not pressed for 16 seconds.

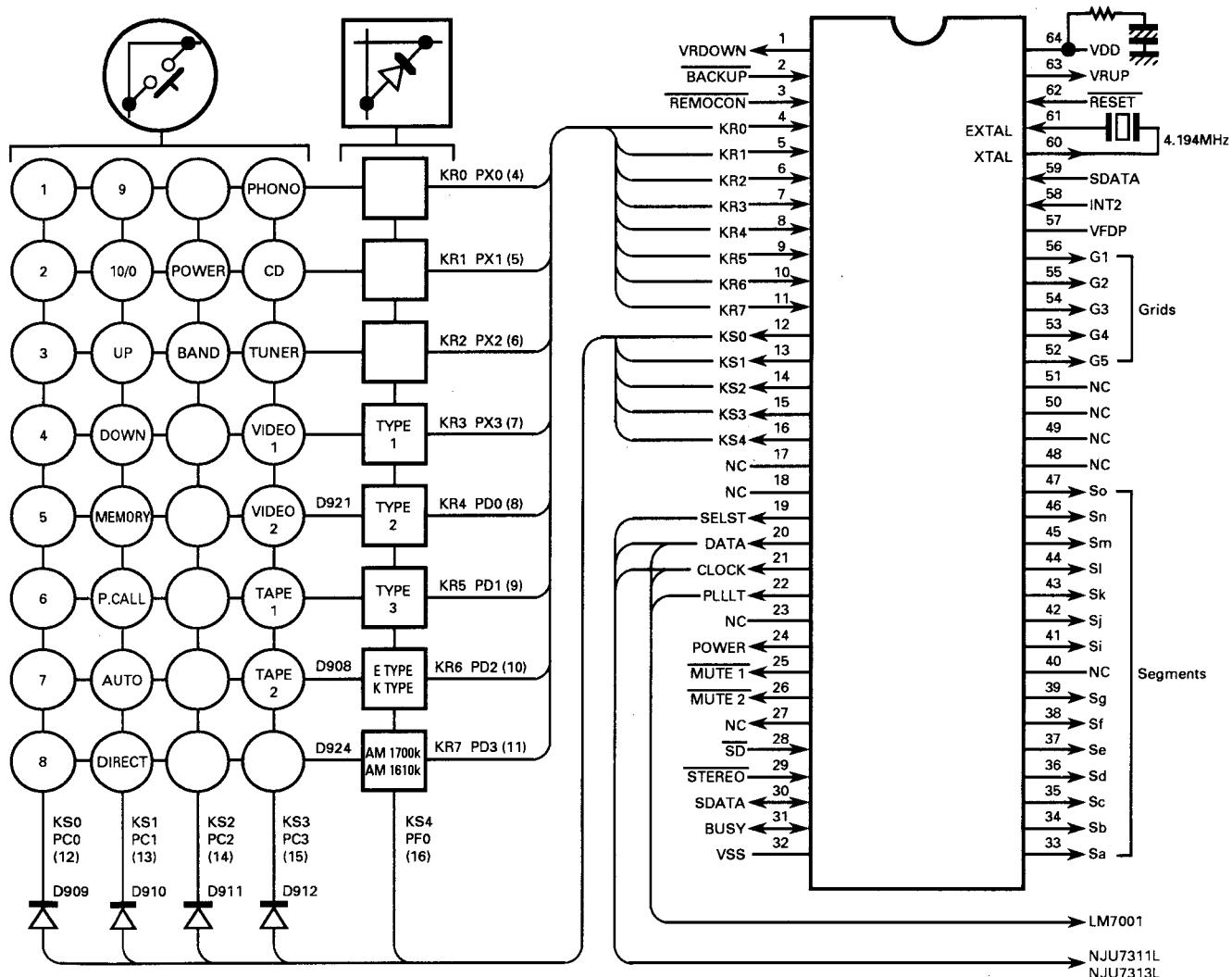
EXCEPT E,T

# KR-A4060/A5060

## CIRCUIT DESCRIPTION

### 2. Receiver µ-com : CXP5016-531S (Front PCB : IC901)

#### 2-1. Key matrix connection diagram



#### 2-2. Setting of destinations, models and specifications depending upon diode key matrix

The setting of destinations, models and specifications is made according to the initial set diode key matrix. In the following, "1" means with diodes and "0" without diodes.

##### • Model set switch (Type 2 : D921)

Model set switch			MODEL	Function		
Type 1	Type 2	Type 3		TUNER band	VOL.CONT with motor	REMOCON
-	1	0	KR-A4060/A5060	→FM1→FM2→AM→	Provided	Provided

# KR-A4060/A5060

## CIRCUIT DESCRIPTION

- Destination set switch : E/K type (D908 to Q903)

Destination set switch	Desti- nation	BAND	Reception frequency band	Channel space	Reference frequency
0	K	FM	87.5~108.0MHz	100kHz	50kHz
		AM	530~1610kHz	10kHz	10kHz
		AM	530~1700kHz	10kHz	10kHz
1	E	FM	87.5~108.0MHz	50kHz	50kHz
		AM	531~1602kHz	9kHz	9kHz

- Specification set switch :  
**AM 1700k/AM 1610k (D924)**  
With destination set switch at "0" :  
**Effective only for K type**

Specification set switch	AM reception frequency band
0	530~1610kHz
1	530~1700kHz

### 2-3. Pin function

No.	Name	I/O	Function
1	VRDOWN	O	Volume down operation control. ("H" : Down, "L" : Normal state)
2	BACKUP	I	Backup (AC outlet OFF) detection. ("H" : Normal state, "L" : AC outlet off)
3	REMOCON	I	Remocon signal input. (Active "L")
4~7	KR0~KR3	I	Key return signal input. ("H" : There is input, "L" : There is not input)
8~11	KR4~KR7		
12~16	KS0~KS4	O	Key scan signal output. Normally high is output. Key scan is performed when key is ON.
17, 18	NC	O	Not used.
19	SELST	O	Data latch signal output to NJU7311L/NJU7313L. Data is latched on the rising edge.
20	DATA	O	LM7001 (PLL IC), NJU7311L/NJU7313L (selector IC) control serial data output. Data is latched on the rising edge of the clock.
21	CLOCK		LM7001, NJU7311L/NJU7313L control serial data transfer shift clock output. Data is latched on the rising edge of the clock.
22	PLLLT	O	CE signal output to LM7001. When the signal is high, LM7001 is enable.
23	NC	-	Not used.
24	POWER	O	Power supply circuit relay ON/OFF control. ("H" : ON, "L" : OFF)
25	MUTE1	O	TAPE 2 REC OUT mute control. ("H" : MUTE OFF, "L" : MUTE ON)
26	MUTE2	O	LINE OUT mute control. ("H" : MUTE OFF, "L" : MUTE ON)
27	NC	O	Not used.
28	SD	I	Tuner tuned detection. ("H" : No signal, "L" : Tuned)
29	STEREO	I	Tuner FM stereo detection. ("H" : MONO, "L" : STEREO)
30	SDATA	I/O	This pin and serial data pin 59 are shorted.
31	BUSY	I/O	Serial busy signal input/output.
32	Vss	-	GND
33~47	Sa~So	O	Fluorescent display segment drive signal output. (Pin 40 muted)
48~51	-	O	Not used.
52~56	G5~G1	O	Fluorescent display digit drive signal output.
57	VFDP	-	Fluorescent display output driver circuit power supply.
58	INT2	I	Not used. This pin and GND are shorted.
59	SDATA	I	This pin and serial data input pin 30 are shorted.
60	XTAL	O	Clock generation circuit output pin.
61	EXTAL	I	Clock generation circuit input pin.
62	RESET	I	Reset signal input.
63	VRUP	O	Volume up operation control. ("H" : UP, "L" : Normal state)
64	VDD	-	+5V power supply.

EXCEPT E, T

# KR-A4060/A5060

## CIRCUIT DESCRIPTION

### 3. Function description

#### Features

##### 3-1. AMP

- Seven position selector :  
CD, TUNER, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Six audio output terminals :  
CD, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Tree output terminals :  
TAPE1, TAPE2
- LINE STRAIGHT

- Speaker A/B change-over
- TAPE2 monitor

##### 3-2. TUNER

- 20ch random preset
- Tuning control by IF count
- Direct selection
- RDS function (E, T type only)

### 4. Conditions according to the destination and model

#### 4-1. AMP

MODEL	DIODE SW		Surround function
	5	4	
KR-V7050	0	0	PRO-LOGIC, 3-STEREO, DSP, DSP-LOGIC
KR-V6050 (Except E, T only)	0	1	PRO-LOGIC, 3-STEREO
KR-A4060/A5060 (E, T only)	1	X	No surround

X : Don't care

#### 4-2. TUNER

Destination	DIODE SW				Band	Receiving Remarks	Channel space	IF	RF	Note
	3	2	1	0						
K1	0	0	0	0	FM AM	87.5MHz~108.0MHz 530kHz~1610kHz	100kHz 10kHz	+10.7MHz +450kHz	50kHz 10kHz	
K2	0	0	1	0	FM AM	87.5MHz~108.0MHz 530kHz~1700kHz	100kHz 10kHz	+10.7MHz +450kHz	50kHz 10kHz	
E	0	1	0	0	FM AM	87.5MHz~108.0MHz 531kHz~1602kHz	50kHz 9kHz	+10.7MHz +450kHz	50kHz 9kHz	
E	1	1	0	0	FM AM	87.5MHz~108.0MHz 531kHz~1602kHz	50kHz 9kHz	+10.7MHz +450kHz	50kHz 9kHz	With RDS

#### 4-3. Diode matrix : Diode switch No.

	Pin No.	55	56	57	58	59	60
Pin No.	Pin name	KR5	KR4	KR3	KR2	KR1	KR0
61	KS7	Channel space	AM 1610/1700	RDS Yes/No	DSP.DOL/DOL only	Surround Yes/No	(X)
Diode switch No.		2	1	3	4	5	0
Diode Ref. No.		D911	-	D910	-	D909	-

- Diode SW 0→
- Diode SW 1→ AM band range/Except E, T type only  
0 : AM NARROW  
1 : AM WIDE
- Diode SW 2→ Channel base  
(Products bound for M : Change-over with switch)  
0 : FM 100kHz/step, AM 10kHz/step  
1 : FM 50kHz/step, AM 9kHz/step

- Diode SW 3→With/Without RDS/E, T type only  
0 : Without RDS  
1 : With RDS
- Diode SW 4→Surround mode  
0 : Dolby function & DSP function  
1 : Dolby function only
- Diode SW 5→With/Without surround  
0 : With surround  
1 : Without surround

ET

# KR-A4060/A5060

## CIRCUIT DESCRIPTION

### 5. Initial state

① POWER OFF	③ TUNER system		
② AMP system	<ul style="list-style-type: none"> <li>• Band ..... FM</li> <li>• Frequency ..... Lower limit of FM (87.5MHz)</li> <li>• TUNING mode .... AUTO TUNING (AUTO STEREO)</li> <li>• P.CH indication ..... --ch</li> </ul>		
• Audio selector ..... TUNER	• Frequency ..... Lower limit of FM (87.5MHz)	• TUNING mode .... AUTO TUNING (AUTO STEREO)	• P.CH indication ..... --ch
• Video system selector ..... VIDEO 1	• Band ..... FM	• Frequency ..... Lower limit of FM (87.5MHz)	• TUNING mode .... AUTO TUNING (AUTO STEREO)
• Speaker A ..... ON	• Frequency ..... Lower limit of FM (87.5MHz)	• P.CH indication ..... --ch	• P.CH indication ..... --ch
• Speaker B ..... OFF	• Band ..... FM	• TUNING mode .... AUTO TUNING (AUTO STEREO)	• P.CH indication ..... --ch
• TAPE 2 monitor ..... OFF	• Frequency ..... Lower limit of FM (87.5MHz)	• P.CH indication ..... --ch	• P.CH indication ..... --ch
• LINE STARIGHT ..... OFF	• Band ..... FM	• TUNING mode .... AUTO TUNING (AUTO STEREO)	• P.CH indication ..... --ch

	<b>K1 type</b>	<b>K2 type</b>	<b>E type</b>
01ch	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
02ch	FM108.00MHz	FM108.00MHz	FM108.00MHz
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1610 kHz	AM 1700 kHz	AM 1602 kHz
07ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
08ch	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
09ch	AM 530 kHz	AM 530 kHz	AM 531 kHz
10ch	FM 89.10MHz	FM 89.10MHz	FM 89.10MHz
11ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
13ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
14ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
15ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
16ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
17ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
18ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
19ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
20ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz

**Initial setting** Insert the AC power cord plug in the electrical outlet while pushing the "POWER" key.

# KR-A4060/A5060

## CIRCUIT DESCRIPTION

### 6. Main Unit Test Mode

#### Setting method

Turn the AC power ON while pushing the "TUNING DOWN" key.

#### Cancellation method

Turn the AC power OFF.

#### Contents

##### ① Start of the main unit test mode

The operation gets in the test mode through a main unit key, when the AC power is turned ON while pushing the "TUNING DOWN" key.

##### ***Three operations are carried out in this case.***

- Automatic power ON
- All fluorescent character display tubes and LED light up.
- Initialization of all states except POWER ON/OFF.  
The "All indications lit up" states is cancelled by pushing any key of the main unit.  
The states changed during the test mode are initialized when the main unit test mode is cancelled (AC power OFF).

② Automatic motor VR UP/DOWN (AMP)  
The operation (16 sec. UP→16 sec. DOWN→STOP) of the motor is carried out when the "TAPE 2" key is operated. Therefore, "TAPE 2 (MONITOR)" can not be changed-over during the main unit test mode.

##### ③ Mute signal output (AMP)

No control of selector MUTE (MUTE1) is carried out.

##### ④ Test mode operation of 0~9, +10 (TUNER)

- a) When the +10 key is not operated, the channels 1~9 (keys 1~9), as well as the channel 10 (key 0), can be called.
- b) When the +10 key is operated once, the channels 11~19 (keys 1~9), as well as the channel 20 (key 0), can be called.
- c) When the +10 key is operated once again, the operation returns to the case "a) When the +10 key is not operated".

##### ⑤ Processing of keys available only in the remote controller

- Processing related to the AMP : None
- Processing related to the TUNER : None

##### ⑥ Cancellation of the main unit test mode

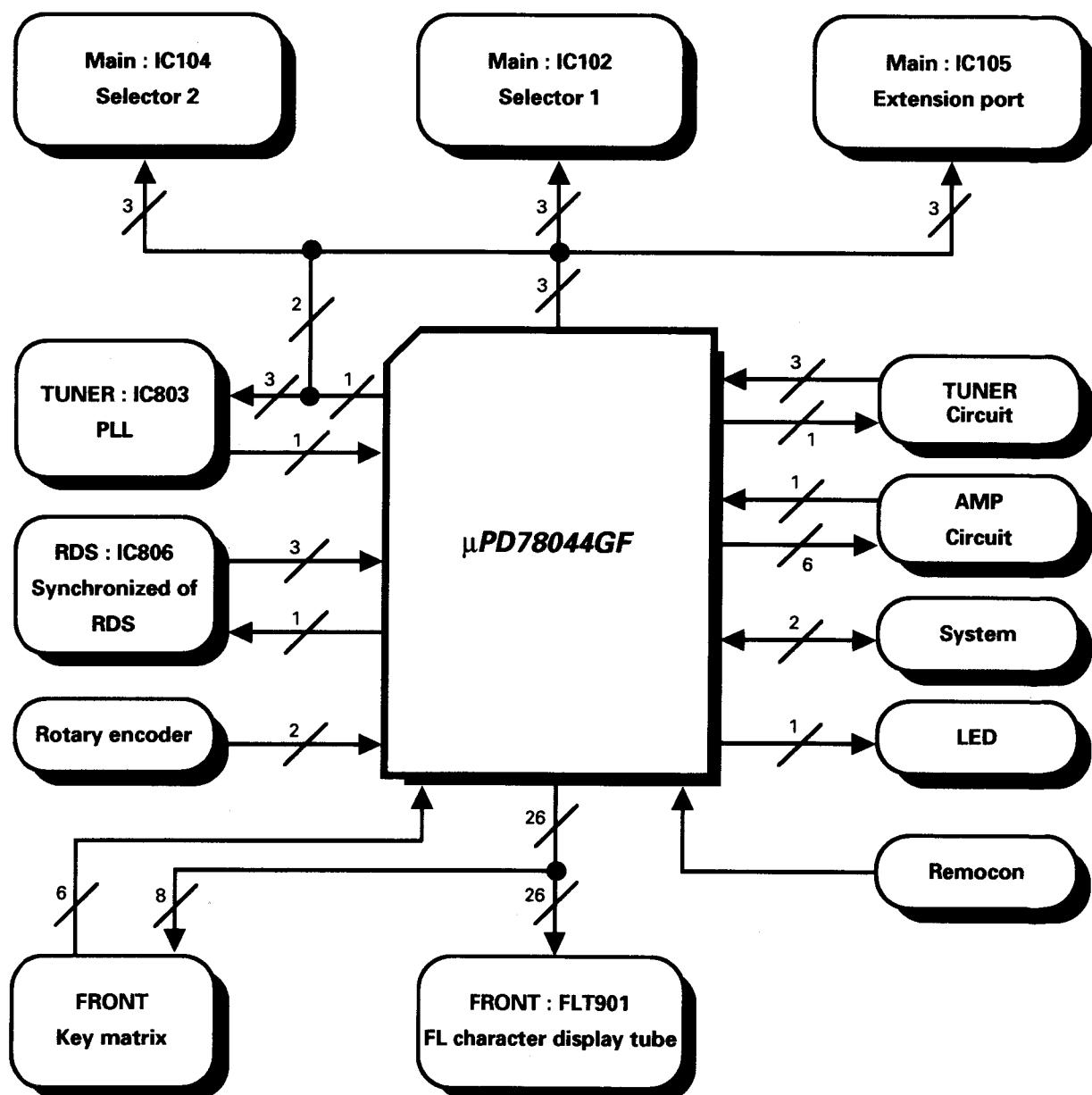
The test mode is cancelled, and the operation returns to the initial state when the AC power is turned OFF during the test mode.

# KR-A4060/A5060

## CIRCUIT DESCRIPTION

7. μ-com : μPD78044GF-021 (Front PCB : IC901)

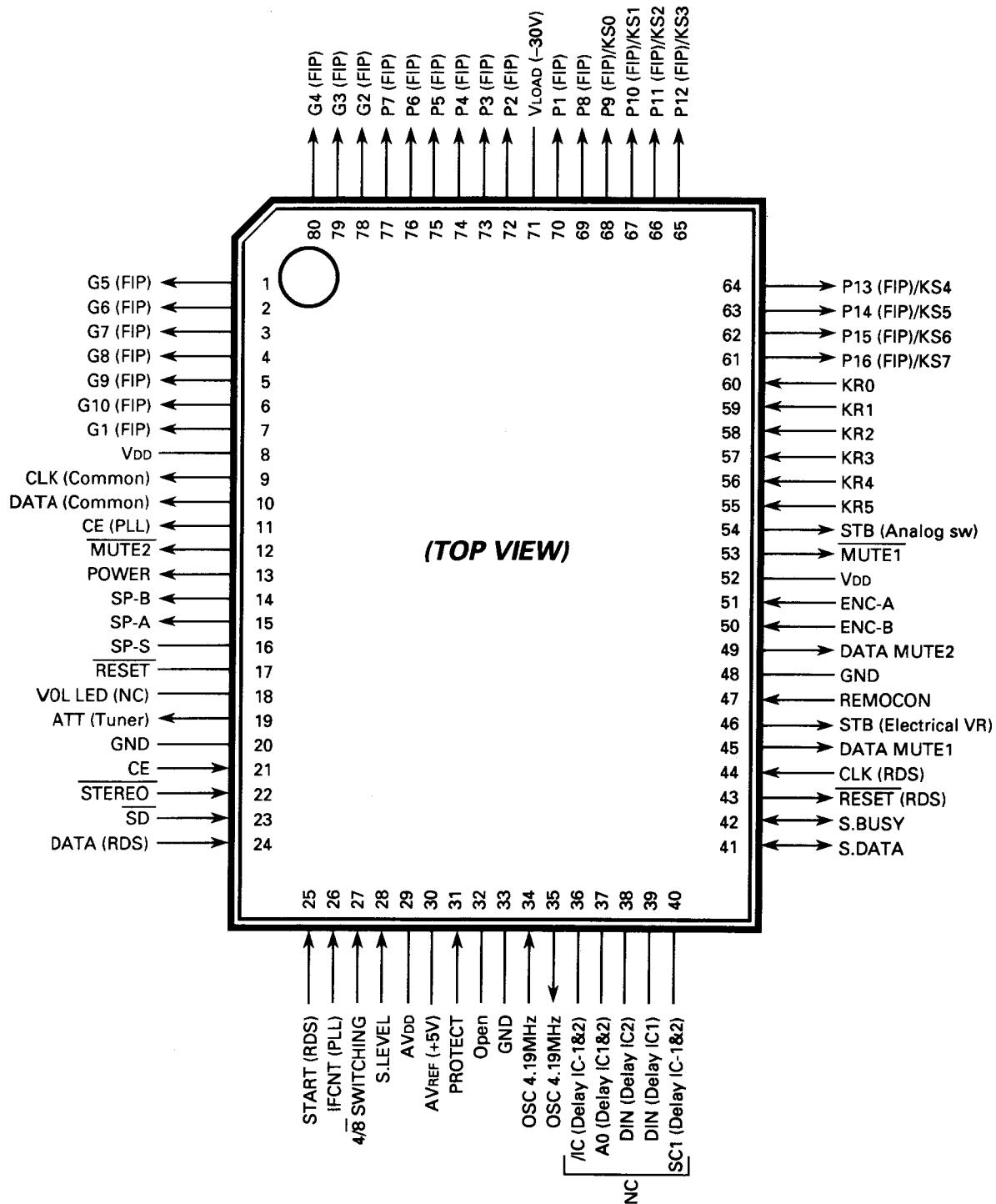
7-1. μ-com periphery block diagram



# KR-A4060/A5060

## CIRCUIT DESCRIPTION

### 7-2. Pin connection



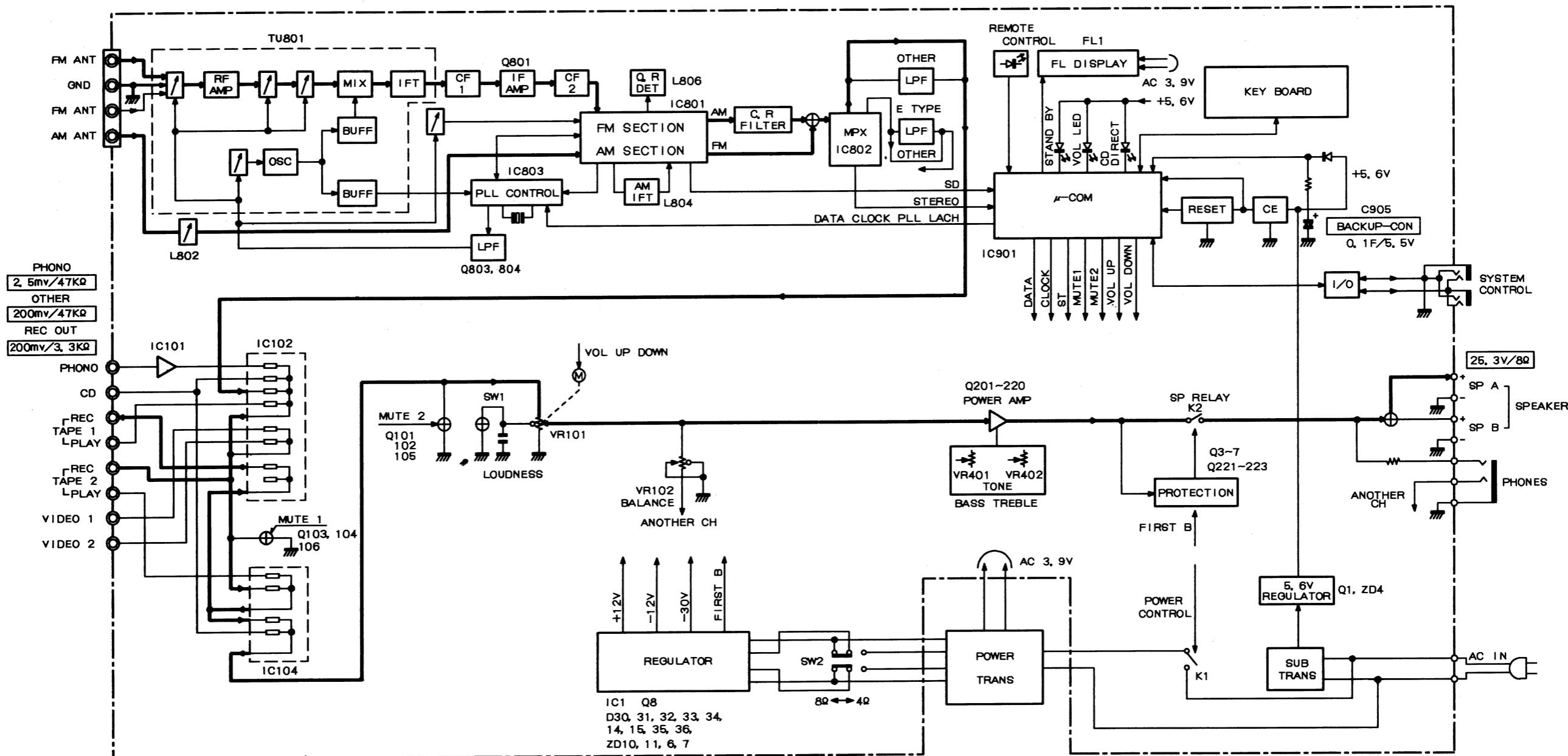
# KR-A4060/A5060

## CIRCUIT DESCRIPTION

### 7-3. Pin function

No.	Name	I/O	Function
1~6, 7	G5~G10, G1	O	FL grid 5~10, and 1.
8	VDD	-	Power supply.
9	CLK (Common)	O	Clock for control IC. (Analog sw/PLL IC/Electronic VOL)
10	DATA (Common)	O	Data for control IC. (Analog sw/PLL IC/Electronic VOL)
11	CE (PLL)	O	PLL CE.
12	<u>MUTE2</u>	O	Amplifier mute control. ("H" : Mute OFF, "L" : Mute ON)
13	POWER	O	Power relay control. ("H" : Power ON, "L" : Power OFF)
14	SP-B	O	Speaker B relay control. ("H" : SP-B ON, "L" : SP-B OFF)
15	SP-A	O	Speaker A relay control. ("H" : SP-A ON, "L" : SP-A OFF)
16	SP-S	-	Not used (open).
17	<u>RESET</u>	I	$\mu$ -com reset.
18	VOL LED	-	Not used (open).
19	ATT (Tuner)	O	Attenuator control ("H" : ATT ON, "L" : ATT OFF)
20	GND	-	A/D power supply.
21	CE	I	$\mu$ -com CE.
22	<u>STEREO</u>	I	Stereo signal detection. ("H" : Monaural, "L" : Stereo)
23	<u>SD</u>	I	Tuning signal detection. ("H" : Not tuned, "L" : Tuned)
24	DATA (RDS)	I	RDS data.
25	START (RDS)	I	RDS start bit.
26	IFCNT (PLL)	I	IF CNT data (PLL DO).
27	4/8 SWITCHING	I	Speaker impedance switching. ("H" : $4\Omega$ , "L" : $8\Omega$ )
28	S.LEVEL	I	Signal level (A/D).
29	AVDD	-	A/D power supply.
30	AVREF	-	A/D reference voltage (+5V).
31	PROTECT	I	Protection detection. ("H" : Protection, "L" : Normal)
32	NC	-	Open.
33	Vss	-	GND
34	X1	I	4.19MHz oscillator.
35	X2	O	4.19MHz oscillator.
36	/IC (DELAY IC-1 & 2)	-	Not used.
37	A0 (DELAY IC-1 & 2)	-	Not used.
38	DIN (DELAY IC-1)	-	Not used.
39	DIN (DELAY IC-2)	-	Not used.
40	SC1 (DELAY IC-1 & 2)	-	Not used.
41	S.DATA	I/O	8-bit system data.
42	S. BUSY	I/O	8-bit system busy.
43	RESET (RDS)	O	RDS reset.
44	CLK (RDS)	I	RDS clock.
45	DT MUTE1	O	Data mute 1. ("H" : ON, "L" : OFF)
46	STB (Electrical VOL)	-	Not used.
47	REMOCON	I	Remote controller input.
48	GND	-	
49	DT MUTE2	-	Not used.
50, 51	ENC-B, ENC-A	I	Encoder input. (50 pin : Encoder B, 51 pin : Encoder A)
52	VDD	-	Power supply.
53	<u>MUTE1</u>	O	Selector MUTE control. ("H" : MUTE OFF, "L" : MUTE ON)
54	STB (Analog sw)	O	Analog sw STB.
55~60	KR5~KR0	I	Key return 5~0. (Pin 56 : Not used)
61~68	P16/KS7~P9/KS0	O	FL segment 16~9 / Key scan 7~0.
69, 70	P8, P1	O	FL segment. (69 pin : Segment 8, 70 pin : Segment 1)
71	-30V (VLOAD)	-	FL drive power supply.
72~77	P2~P7	O	FL segment 2~7.
78~80	G2~G4	O	FL grid 2~4.

# KR-A4060 KR-A4060 BLOCK DIAGRAM



KR-A4060

## ADJUSTMENT

**AM section : If alignment point is "-", confirm the value. If not, replace the front end pack.**

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION</b>		<b>SELECTOR : FM</b>					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev. 60dB $\mu$ (ANT. input)	Connect a DC voltmeter between TP803 and TP804. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dB $\mu$ (ANT. input)	Connect a Frequency counter between TP805 and TP806. (TUNER UNIT)	AUTO 98.0MHz	L802 (TUNER UNIT)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev. Selector : L or R Pilot : $\pm 6.75$ kHz dev. 60dB $\mu$ (ANT. input)	(B)	98.0MHz	IFT (W02-)	Minimum distortion. (L or R)	
4	TUNING LEVEL	(A) 98.0MHz 0 dev. 18dB $\mu$ (ANT. input)	(B)	AUTO or MONO 98.0MHz	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
<b>AM SECTION</b>		<b>SELECTOR : AM</b>					
(1)	TUNING LEVEL	(D) 1000 (999) kHz 26dB $\mu$ (ANT. input)	(B)	-	VR804 (TUNER UNIT)	Adjust VR804 and stop at the point where FLT901 (TUNED) goes on.	
<b>AUDIO SECTION</b>							
<1>	IDLE CURRENT	-	Connect a DC voltmeter across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR201 (L) VR202 (R) (AUDIO UNIT)	10mV	(d)

KR-A4060

## AJUSTES

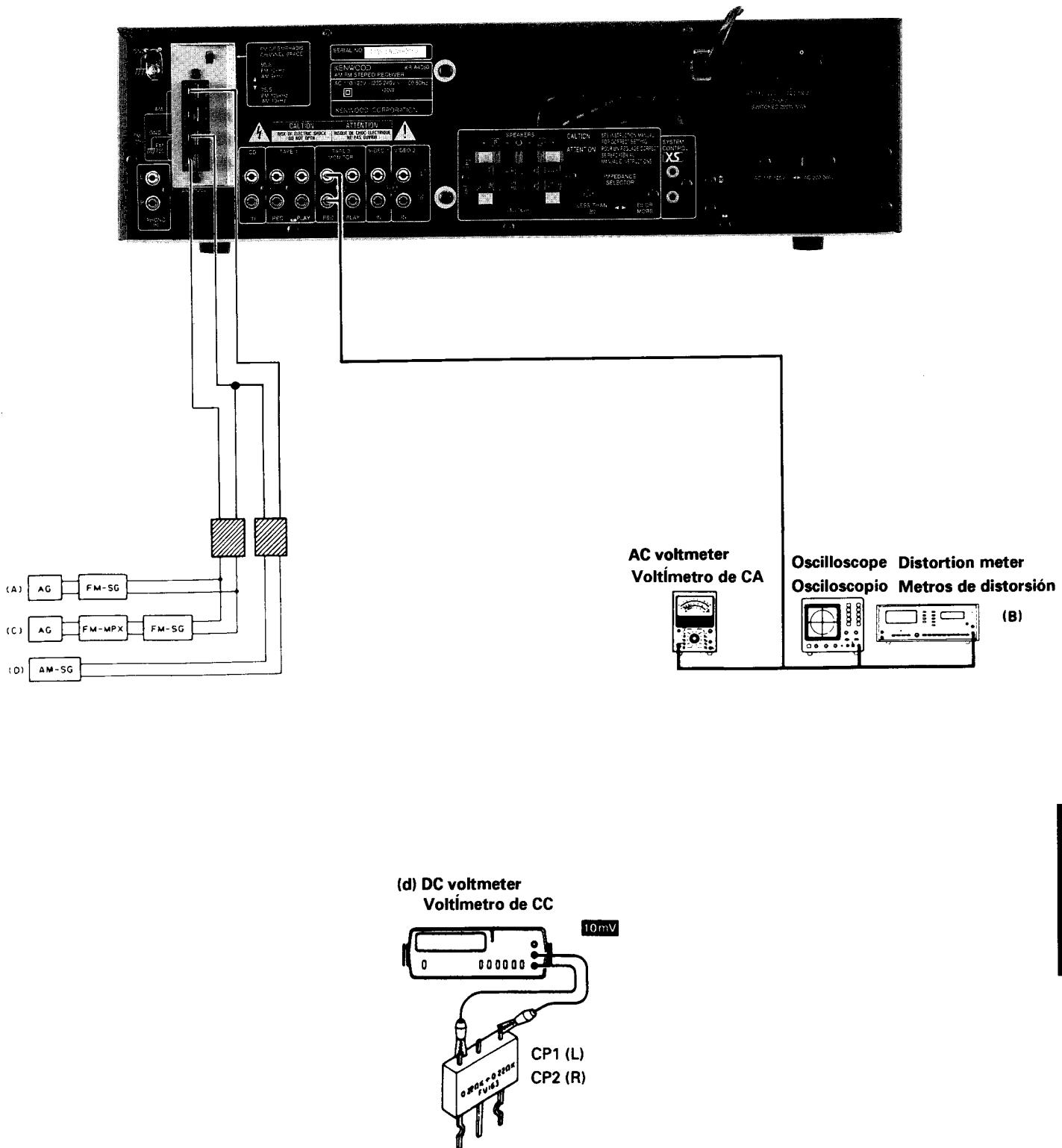
**Sección de AM:** Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG
<b>SECCIÓN DE FM</b>		<b>SELECTOR ; FM</b>					
1	DISCRIMINADOR	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev. 60dB $\mu$ (Entrada de antena)	Conecte un voltímetro de CC entre TP803 y TP804. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dB $\mu$ (Entrada de antena)	Conecte un Frecuencímetro entre TP805 y TP806. (UNIDAD DEL SINTONIZADOR)	AUTO 98.0MHz	L802 (UNIDAD DEL SINTONIZADOR)	19.00kHz	(b)
3	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev. Selector : L or R Pilot : $\pm 6.75$ kHz dev. 60dB $\mu$ (Entrada de antena)	(B)	98.0MHz	IFT (W02-)	Distorsión mínima. (L o R)	
4	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 18dB $\mu$ (Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
<b>SECCIÓN DE AM</b>		<b>SELECTOR ; AM</b>					
(1)	NIVEL DE SINTONÍA	(D) 1000 (999) kHz 26dB $\mu$ (Entrada de antena)	(B)	-	VR804 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
<b>SECCIÓN DE AUDIO</b>							
<1>	CORRIENTE EN REPOSO	-	Conecte un voltímetro de CC entre CP1 (L) y CP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR201 (L) VR202 (R) (UNIDAD AUDIO)	10mV	(d)

## EXCEPT E, T

## ADJUSTMENT/AJUSTES

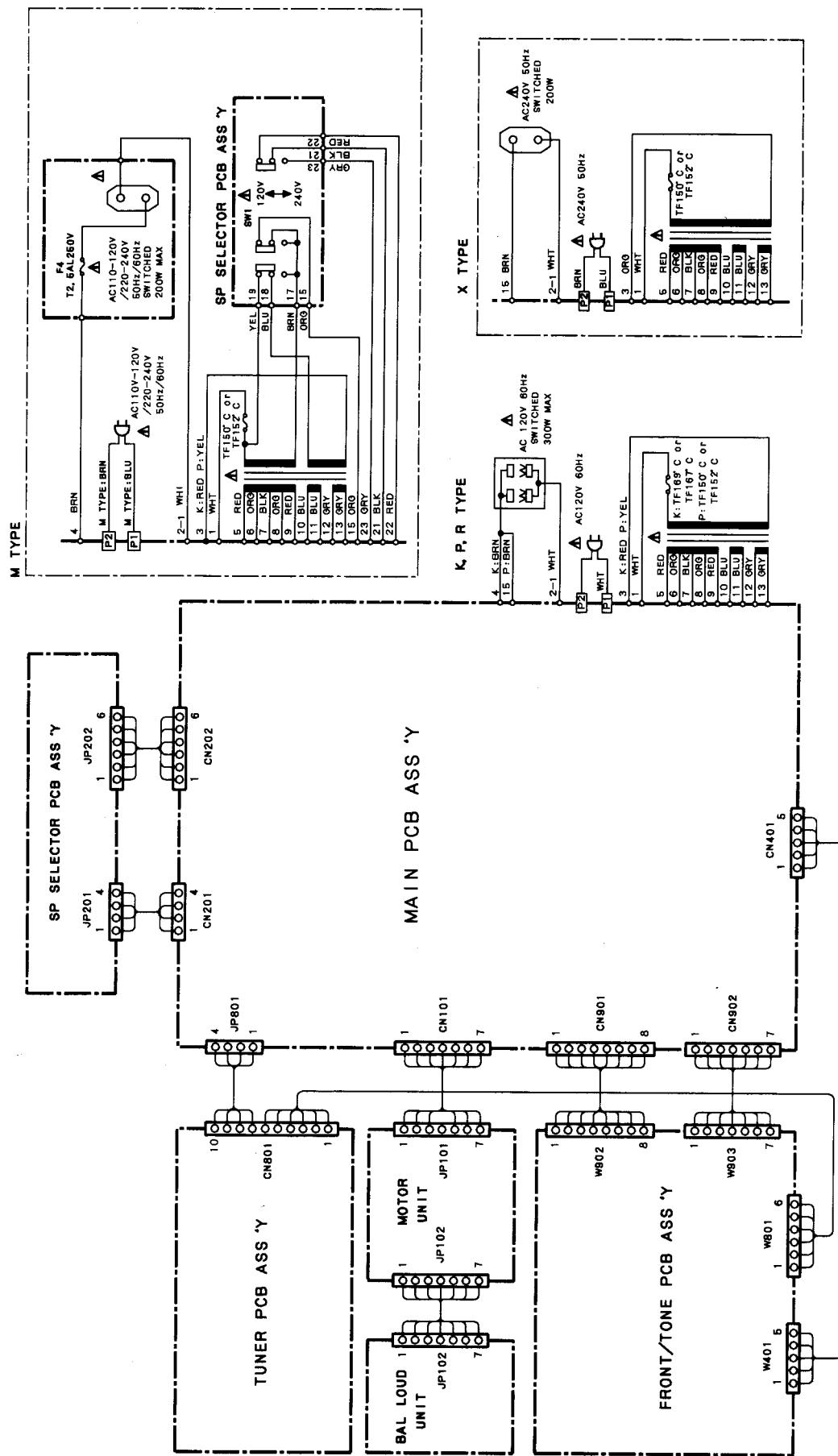
### SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



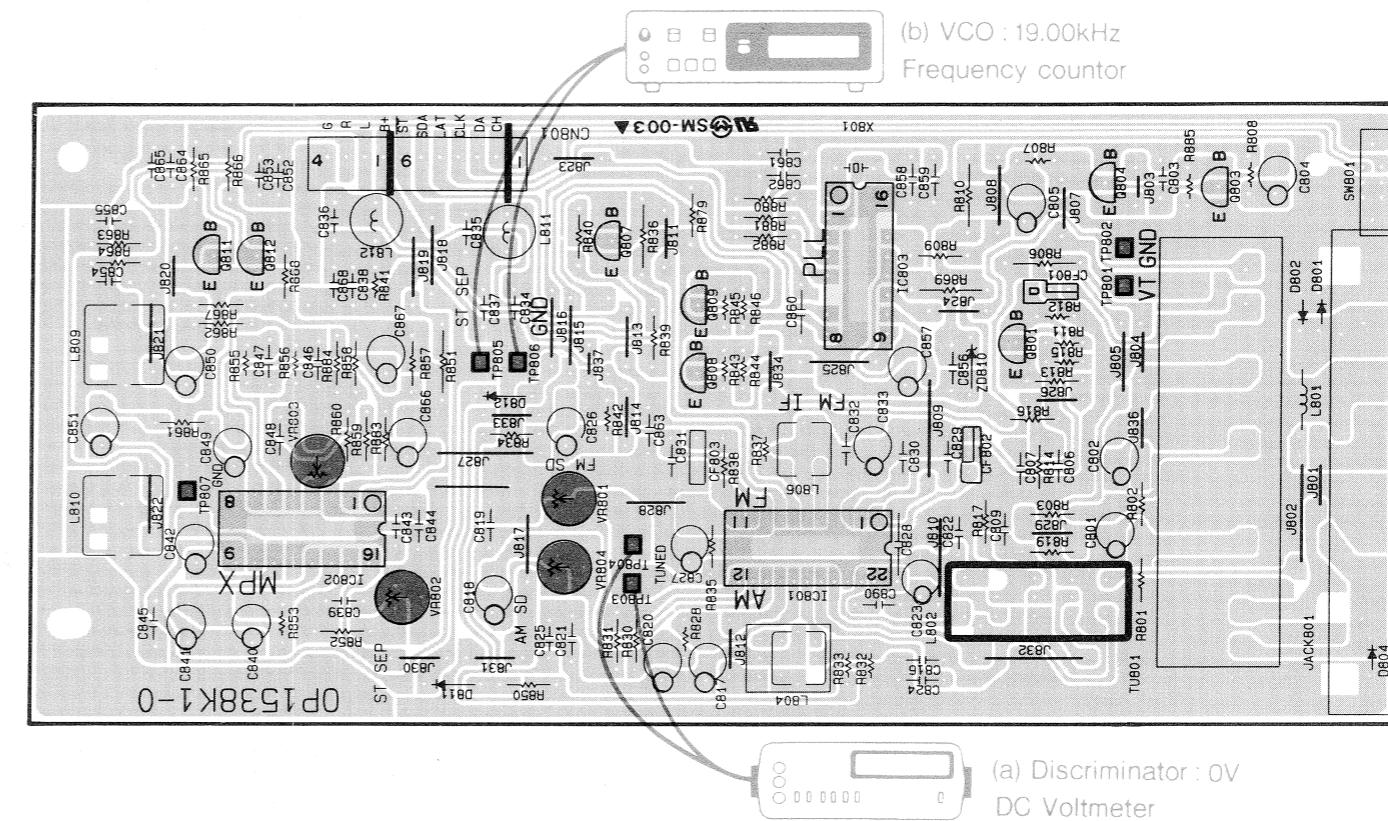
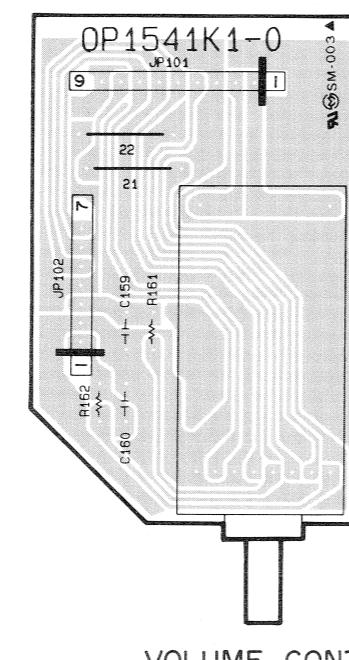
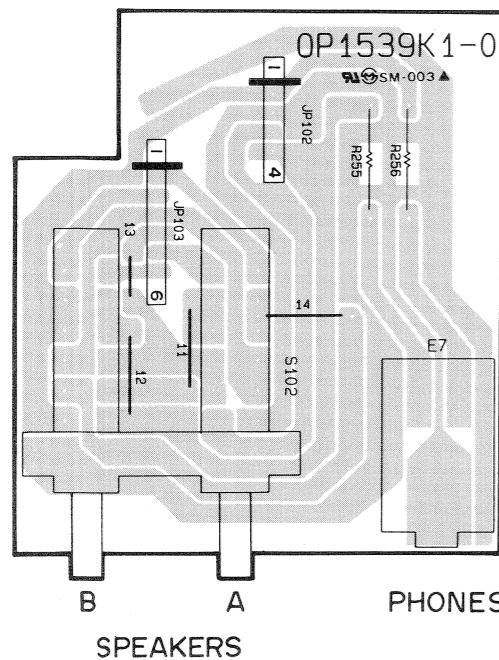
# KR-A4060

## WIRING DIAGRAM

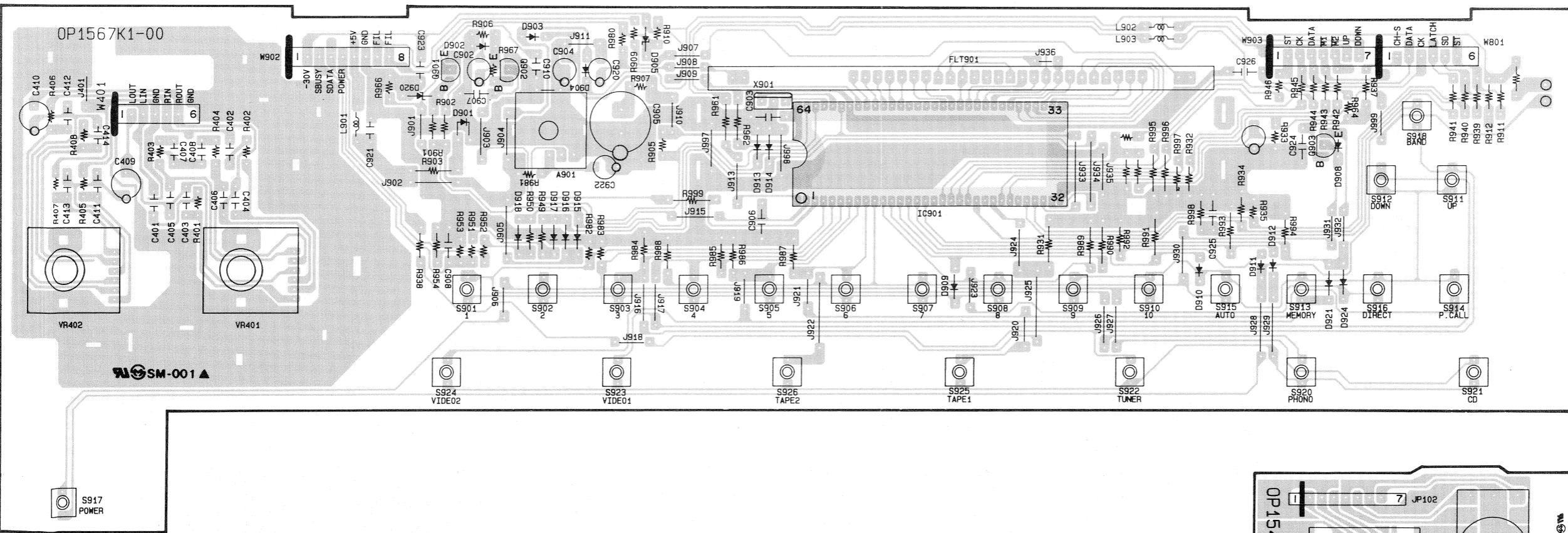
EXCEPT E, T



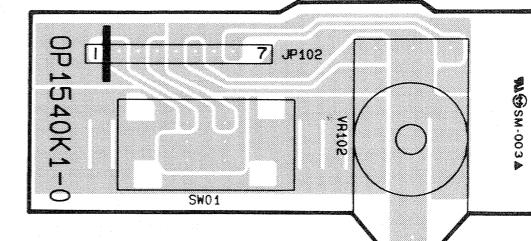
## PC BOARD (COMPONENT SIDE VIEW) : KR-A4060



(b) VCO : 19.00kHz  
Frequency counter



Refer to the schematic diagram for the values of resistors and capacitors



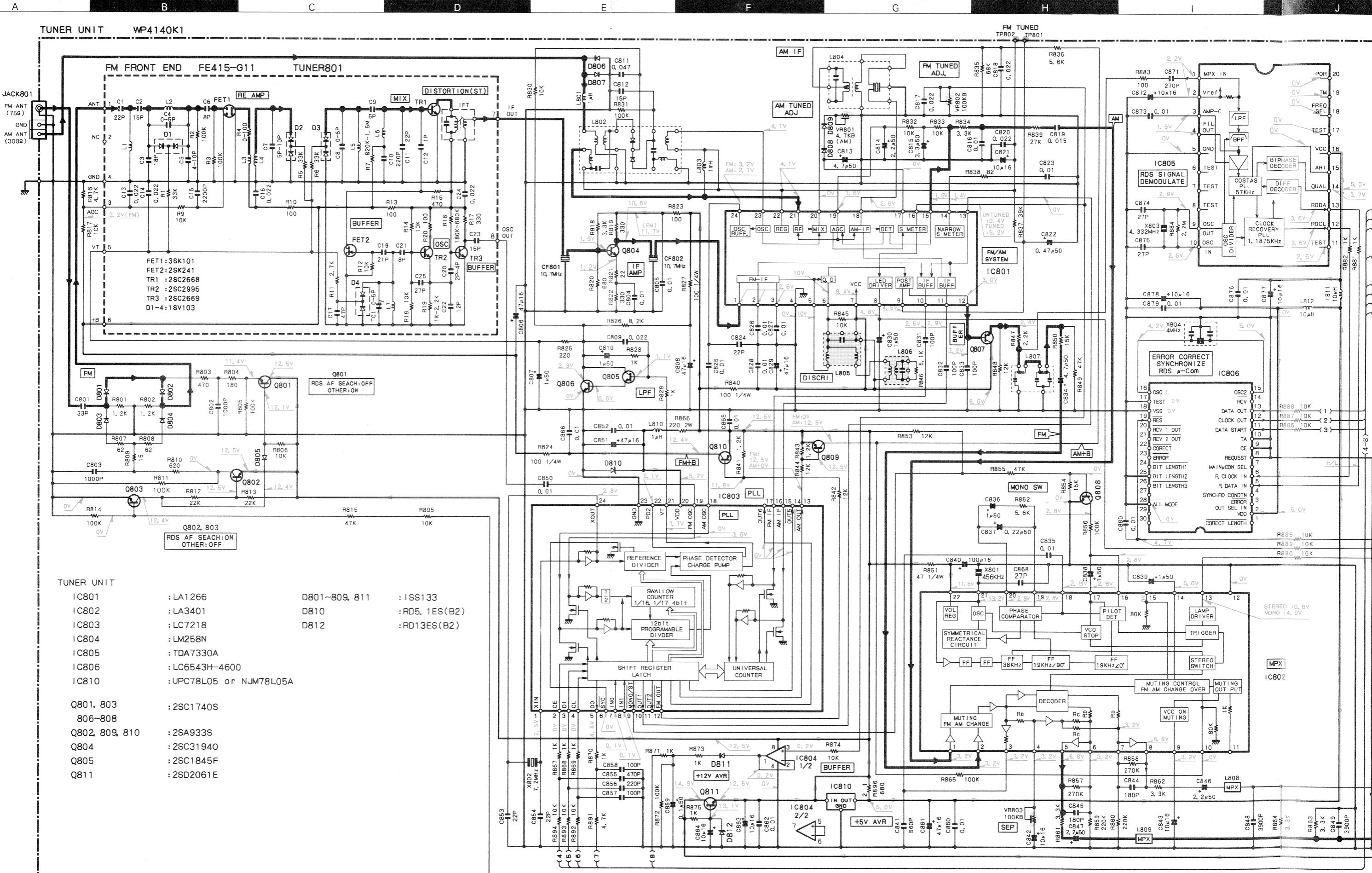
LOUDNESS      BALANCE  
ON      OFF      L      R

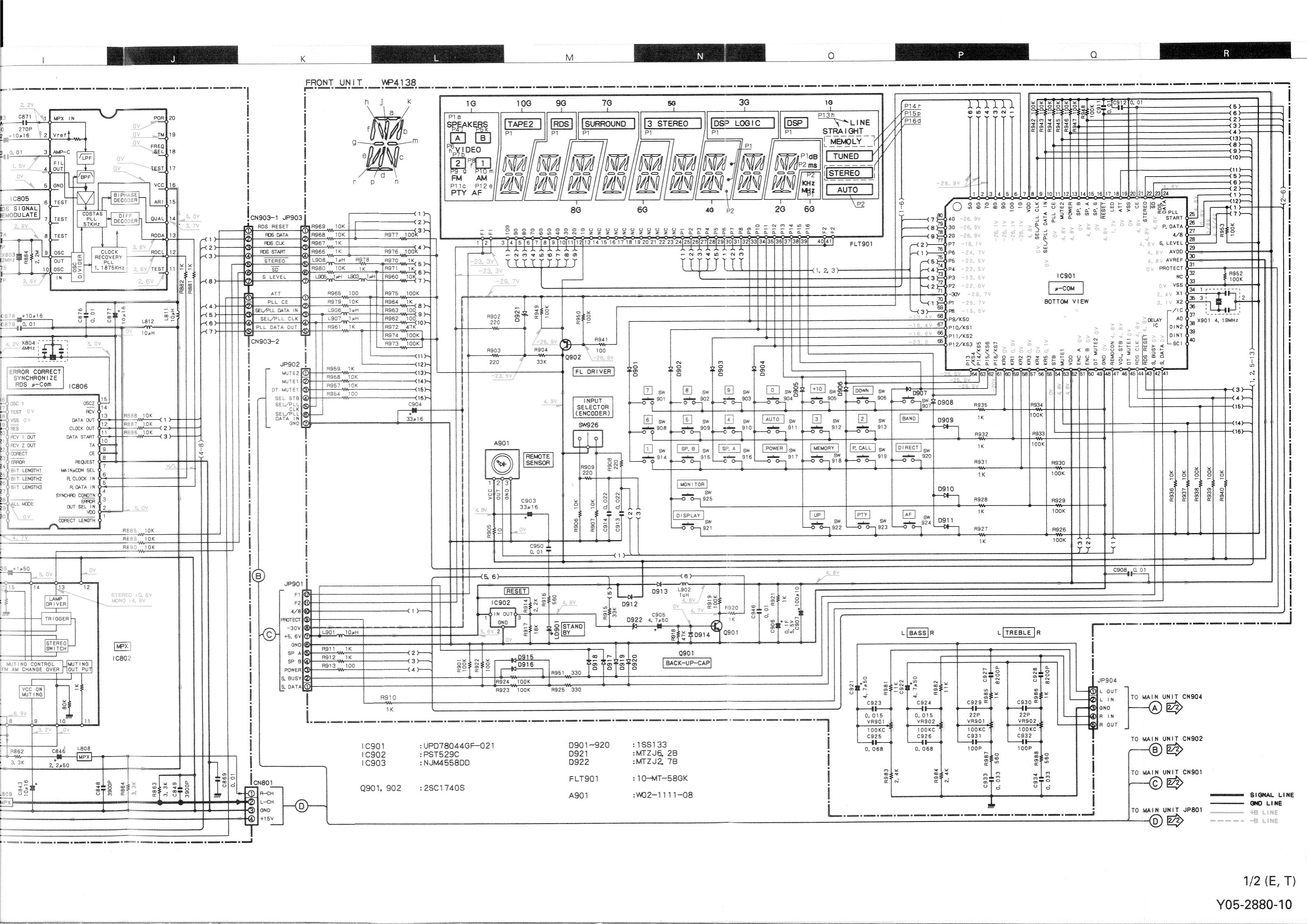
A large, hollow downward-pointing arrow, similar to the one in the top-left corner, is centered on the page. The word "FRONT" is printed in a bold, sans-serif font directly below the arrow's tip.

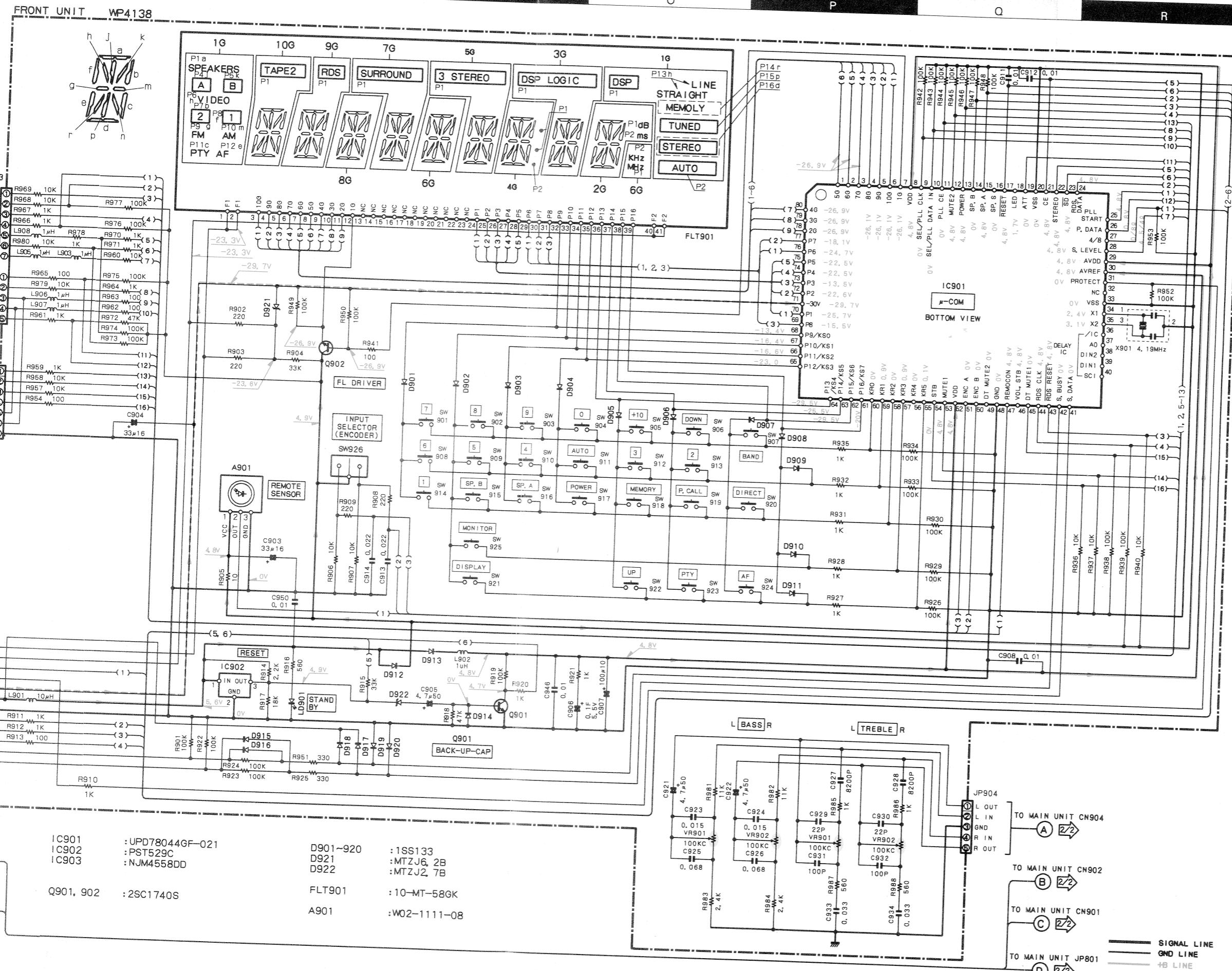
FM 100KHz CHANNEL SPACE AM 10KHz FM 50KHz AM 9KHz

EXCEPT E.T.



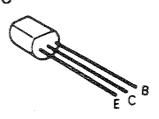




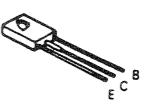


- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

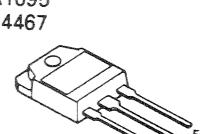
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



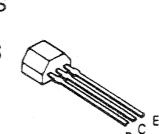
2SA992  
2SC1845  
2SC2878



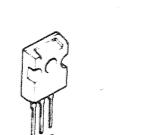
2SD882



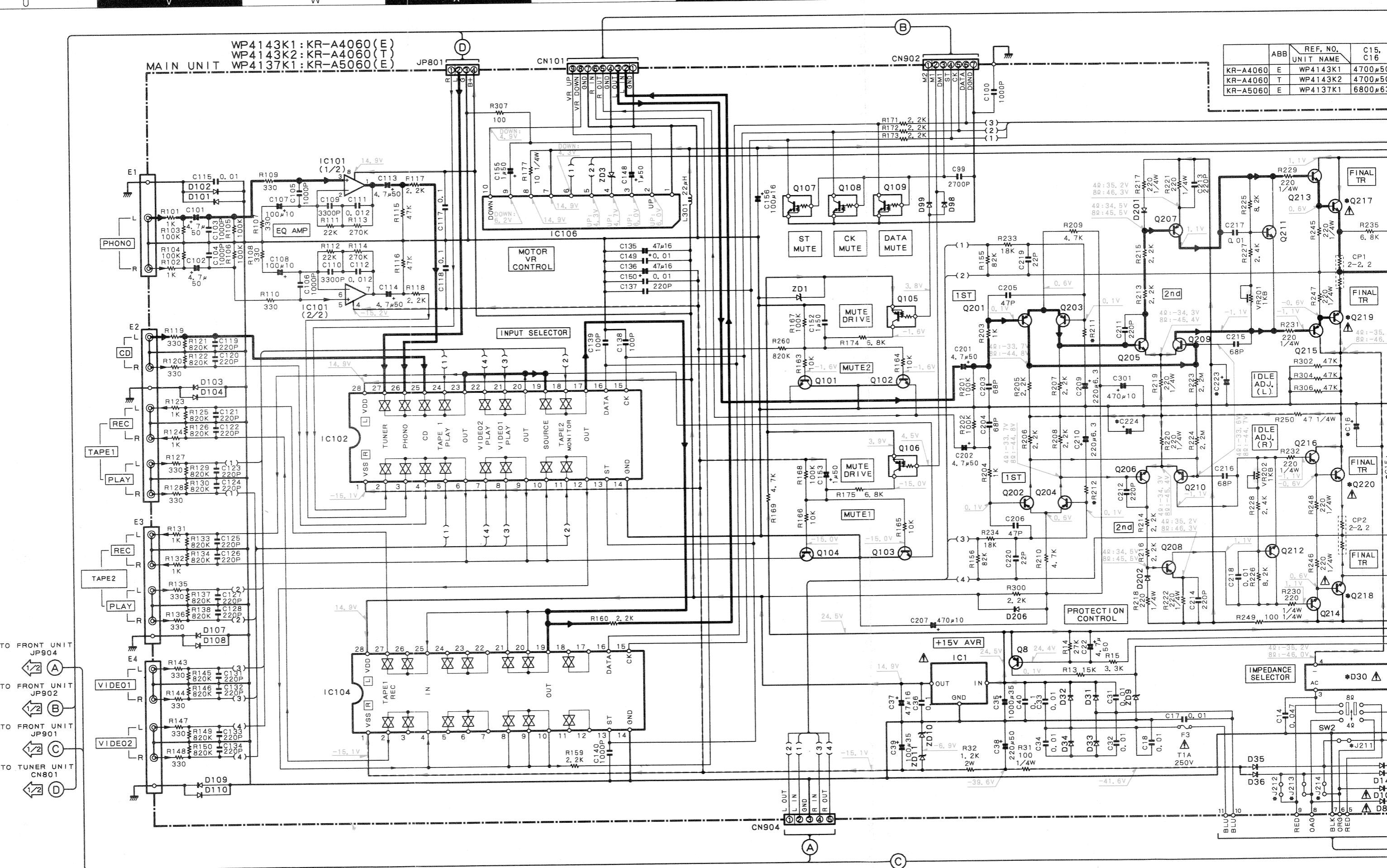
2SA1695  
2SC4467



DTA114ES  
DTC114ES  
2SA933S  
2SC1740S



2SC4137



AC

AD

AE

AF

AG

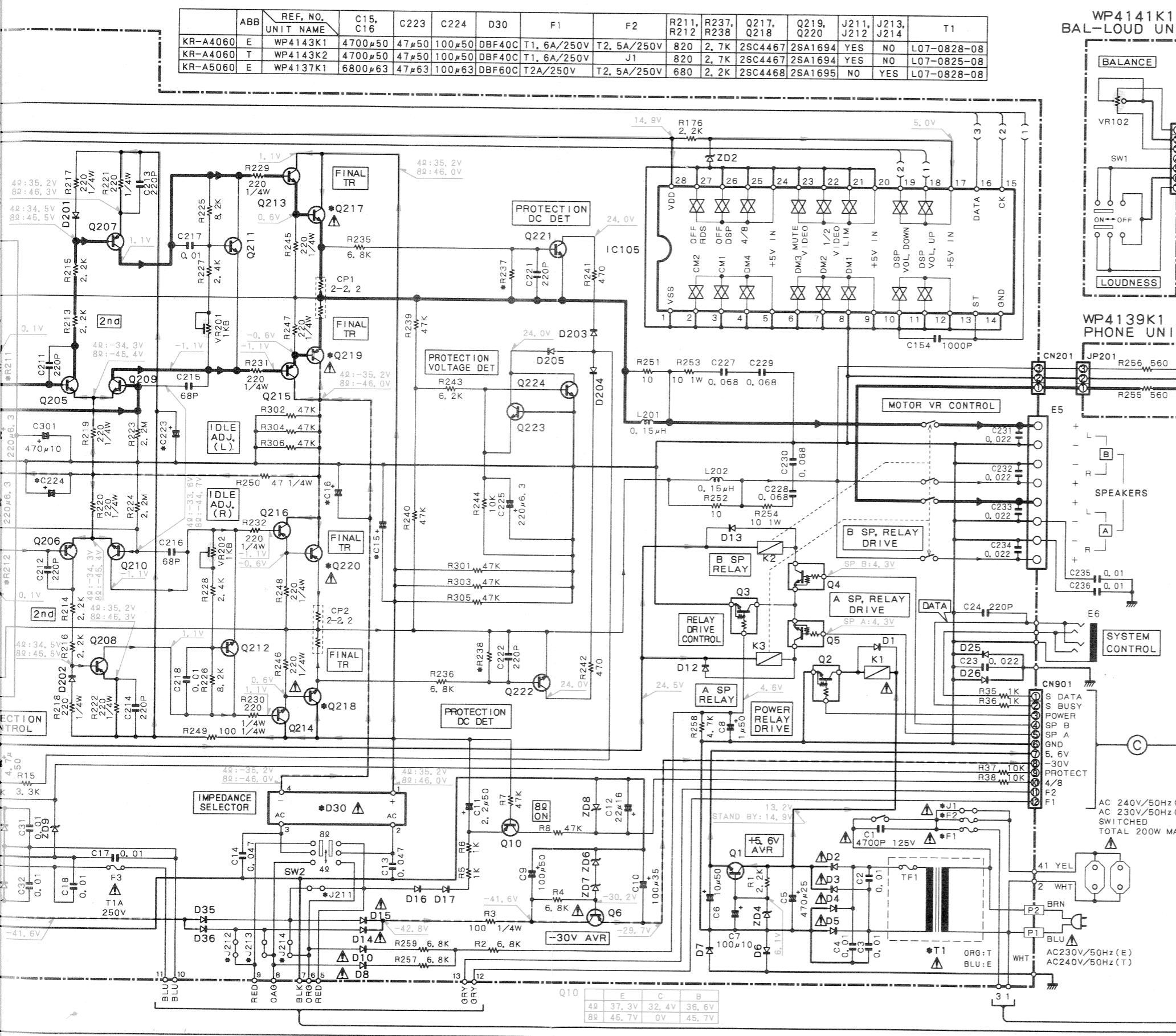
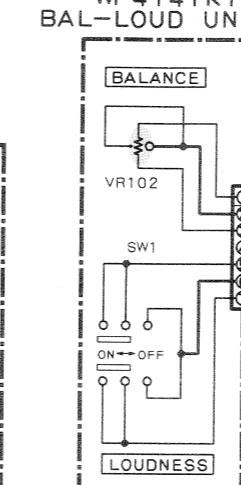
AH

AI

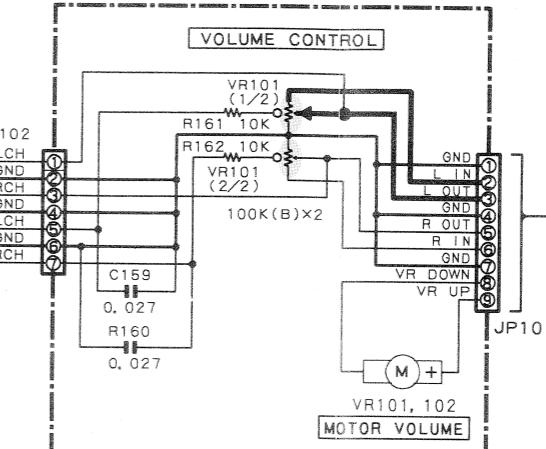
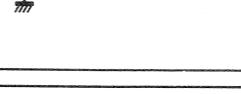
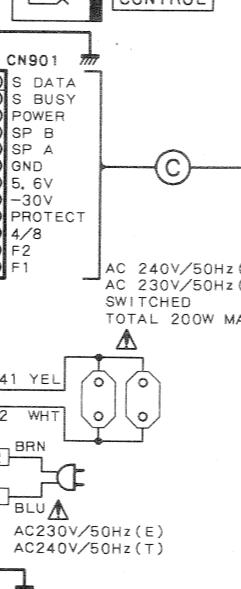
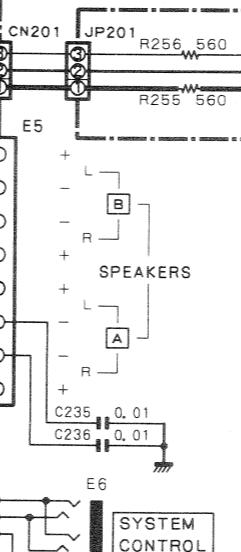
AJ

AK

AL

WP4141K1  
BAL-LOUD UNIT

WP4142K1 MOTOR VR UNIT

WP4139K1  
PHONE UNIT

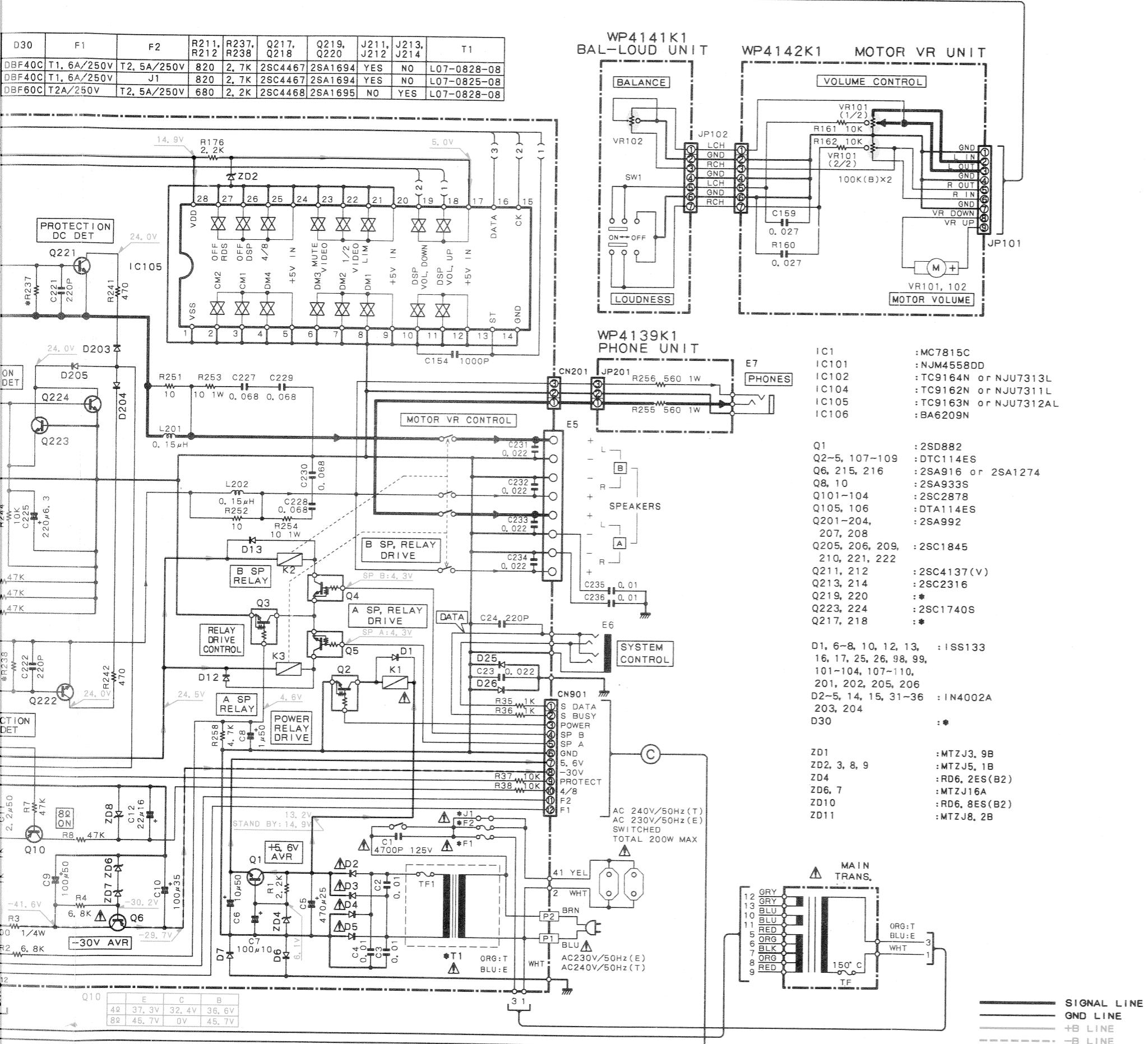
MC7815C  
: NJM4558DD  
: TC9164N or NJU7313L  
: TC9162N or NJU7311L  
: TC9163N or NJU7312AL  
: BA6209N

Q1 : 2SD882  
Q2-5, 107-109 : DTC114ES  
Q6, 215, 216 : 2SA916 or 2SA1274  
Q8, 10 : 2SA933S  
Q101-104 : 2SC2878  
Q105, 106 : DTA114ES  
Q201-204, 207, 208 : 2SA992  
Q205, 206, 209, 210, 221, 222 : 2SC1845  
Q211, 212 : 2SC4137(V)  
Q213, 214 : 2SC2316  
Q219, 220 : \*  
Q223, 224 : 2SC1740S  
Q217, 218 : \*

D1, 6-8, 10, 12, 13, 16, 17, 25, 26, 98, 99, 101-104, 107-110, 201, 202, 205, 206  
D2-5, 14, 15, 31-36 : IN4002A  
D203, 204 : 203, 204  
D30 : D30

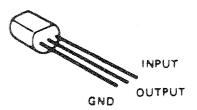
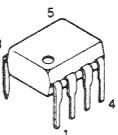
ZD1 : MTZJ3, 9B  
ZD2, 3, 8, 9 : MTZJ5, 1B  
ZD4 : RD6, 2ES(B2)  
ZD6, 7 : MTZJ16A  
ZD10 : RD6, 8ES(B2)  
ZD11 : MTZJ8, 2B

SIGNAL LINE  
GND LINE  
+B LINE  
-B LINE

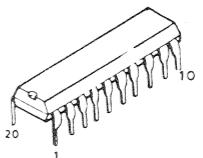


NJM4558DD

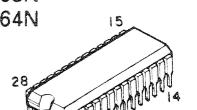
PST529C



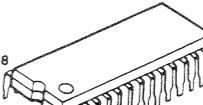
TDA7330A



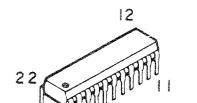
TC9162N  
TC9163N  
TC9164N



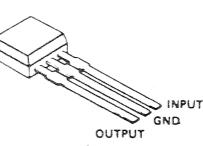
NJU7311L  
NJU7313L



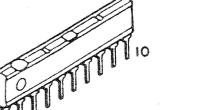
LA3401



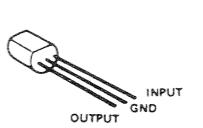
UPC781.05



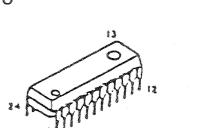
BA6209N



NJM78L05A



LA1266

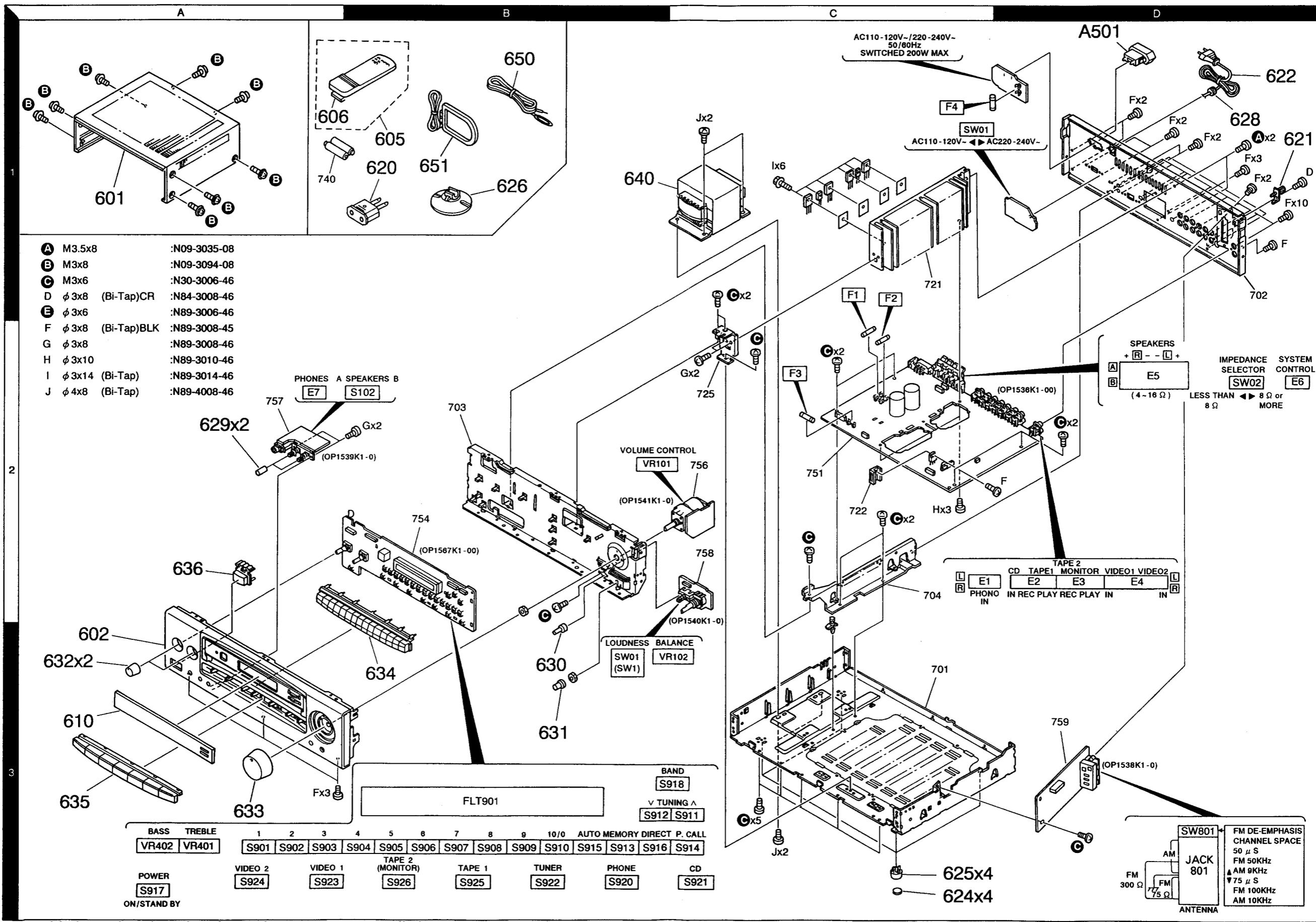


- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

# KR-A4060 KR-A4060

## EXPLODED VIEW (UNIT)





## PARTS LIST

6

Ref. No.	Address	Parts No.	Description	Parts No.	Description	Desti- nation 向 け 仕 事 業 者 の 記 号
Ref. No.	Address	Parts No.	Description	Parts No.	Description	Desti- nation 向 け 仕 事 業 者 の 記 号
R177		RD14GB2E100J	FL-PROOF RD 10	J 1/4W		
R217-222		RD14GB2E221J	FL-PROOF RD 220	J 1/4W		
R229-232		RD14GB2E40J	FL-PROOF RD 47	J 1/4W		
R245-248		RD14GB2E221J	FL-PROOF RD 220	J 1/4W		
R249		RD14GB2E101J	FL-PROOF RD 100	J 1/4W		
R250		RD14GB2E470J	FL-PROOF RD 47	J 1/4W		
R253, 254		RS14DB2A100J	FL-PROOF RS 10	J 1W		
R255, 256		RS14DB2A56J	FL-PROOF RS 560	J 1W		
R806		RD14GB2E101J	FL-PROOF RD 100	J 1/4W		
R810		RD14GB2E101J	FL-PROOF RD 100	J 1/4W		
R836		RD14GB2R101J	FL-PROOF RD 100	J 1/4W		
R851		RD14GB2E820J	FL-PROOF RD 82	J 1/4W		
R859		RD14GB2E221J	FL-PROOF RD 220	J 1/4W		
VR101		R39-0001-08	POTENTIOMETER	VOLUME 100KBX2		
VR102		R10-5071-08	POTENTIOMETER	BALANCE		
VR201, 202		R12-1066-05	TRIMMING POT.	10LE ADJ 1KB		
VR401, 402		R3-0002-08	POTENTIOMETER	BASS, TRBBLB100KC		
VR801		R12-3166-08	TRIM POT.	33KB FM TUNE LEVEL		
VR802		R12-1053-05	TRIM POT.	4.7KB VC0 TUNE LEVEL		
VR804		R12-3071-05	TRIM POT.	10KB AM TUNE LEVEL		
K1		KTR-0026M1	MAGNETIC RELAY POWER			
K2		S75-0005-08	PUSH SWITCH	SPEAKER		
S102		S42-2116-05	PUSH SWITCH	SPEAKERS		
S90-918		S70-0030-08	TACT SWITCH	KEY BOARD		
S920-926		S70-0030-08	TACT SWITCH	KEY BOARD		
SW01		S31-3010-05	SLIDE SWITCH	VOLTAGE SELECT		
SW1		S68-0004-08	SLIDE SWITCH	LOUDNESS SEL		
SW2		S62-0032-08	SLIDE SWITCH	IMPEDANCE SEL		
SW801		S62-0012-08	SLIDE SWITCH	CH. SPACE		
D1		ISS131	DIODE			
D12		ISS131	DIODE			
D2-5		1N4002A	DIODE			
D30		DB816C	DIODE			
D6-9		ISS131	DIODE			
D101-112		ISS131	DIODE			
D107-110		ISS131	DIODE			
D14-15		1N4002A	DIODE			
D20-205		ISS131	DIODE			
D25-26		ISS131	DIODE			
D31-36		1N4002A	DIODE			
D37-38		ISS131	DIODE			
D80-802		ISS133	DIODE			
D810		RD5-1ES(B2)	DIODE			
D811, 812		ISS133	DIODE			
D905-904		ISS133	DIODE			
D905		MT2J6.8B	DIODE			
D908		ISS133	DIODE			
D908-918		ISS133	DIODE			
D920		RD-7ES(B2)	DIODE			
D921		ISS133	DIODE			
FLT001		5-IT-167GK	FLUORESCENT INDICATOR TUBE			
IC1		KIA78012AP	IC(+12V AVR)			
IC101		NJ4555DD	IC(0P AMP X2)			

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans les Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

▲ indicates safety critical components.  
△ indicates safety critical components.

5

Ref. No.	Address	Parts No.	Description	Parts No.	Description	Desti- nation 向 け 仕 事 業 者 の 記 号
K1		K:USA	P:Canada	R:Mexico		
Y:PX (Far East, Hawaii)	T:England	E:Europe	G:Germany			
Y:AAES (Europe)	X:Australia	M:Other Areas				
Y:AAES (Europe)	T:England	E:Europe	G:Germany			
Y:AAES (Europe)	X:Australia	M:Other Areas				
L:Scandinavia	K:USA	P:Canada	R:Mexico			
V:PX (Far East, Hawaii)	T:England	E:Europe	G:Germany			
V:AAES (Europe)	X:Australia	M:Other Areas				
EXCEPT E, T						

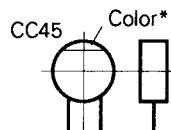
# KR-A4060

## PARTS LIST

### CAPACITORS

CC	45	TH	1H	.220	J
1	2	3	4	5	6

1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating  
 2 = Shape ... round, square, ect. 5 = Value  
 3 = Temp. coefficient 6 = Tolerance



#### • Capacitor value

010 = 1pF  
 100 = 10pF  
 101 = 100pF  
 102 = 1000pF = 0.001μF  
 103 = 0.01μF

2 2 0 = 22pF  
 Multiplier  
 2nd number  
 1st number

#### • Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH =  $-470 \pm 60 \text{ ppm/}^{\circ}\text{C}$

#### • Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μF - 10 ~ +50
							-20	-20	-0	Less than 4.7μF - 10 ~ +75

#### (Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

#### • Voltage rating

1st word	2nd word	A	B	C	D	E	F	G	H	J	K	V
0		1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1		10	12.5	16	20	25	31.5	40	50	63	80	35
2		100	125	160	200	250	315	400	500	630	800	-
3		1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

#### • Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J  
 1 2 3 4 5 6 7  
 (Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z  
 1 2 3 4 5 6 7  
 (Chip) (B, F)

Refer to the table above.

1 = Type  
 2 = Shape  
 3 = Dimension  
 4 = Temp. coefficient  
 5 = Voltage rating  
 6 = Value  
 7 = Tolerance

#### Dimension (Chip capacitors)

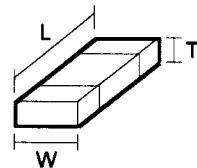
Dimension code	L	W	T
Empty	$5.6 \pm 0.5$	$5.0 \pm 0.5$	Less than 2.0
A	$4.5 \pm 0.5$	$3.2 \pm 0.4$	Less than 2.0
B	$4.5 \pm 0.5$	$2.0 \pm 0.3$	Less than 2.0
C	$4.5 \pm 0.5$	$1.25 \pm 0.2$	Less than 1.25
D	$3.2 \pm 0.4$	$2.5 \pm 0.3$	Less than 1.5
E	$3.2 \pm 0.2$	$1.6 \pm 0.2$	Less than 1.25
F	$2.0 \pm 0.3$	$1.25 \pm 0.2$	Less than 1.25
G	$1.6 \pm 0.2$	$0.8 \pm 0.2$	Less than 1.0

## RESISTORS

#### • Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J  
 1 2 3 4 5 6 7  
 (Chip) (B, F)

#### Dimension



#### • Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J  
 1 2 3 4 5 6 7

1 = Type  
 2 = Shape  
 3 = Dimension  
 4 = Temp. coefficient  
 5 = Rating wattage  
 6 = Value  
 7 = Tolerance

#### Dimension (Chip resistor)

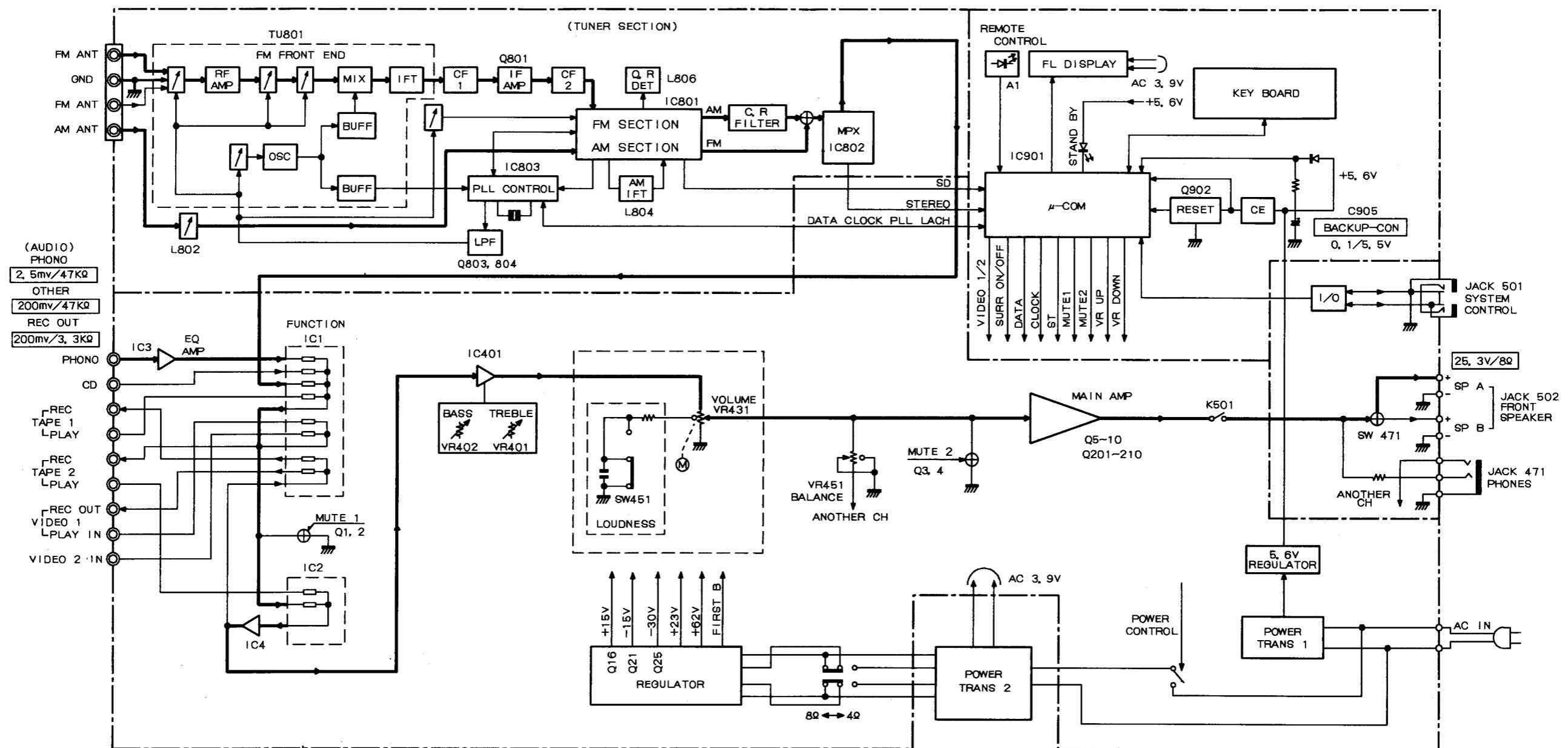
Dimension code	L	W	T
E	$3.2 \pm 0.2$	$1.6 \pm 0.2$	1.0
F	$2.0 \pm 0.3$	$1.25 \pm 0.2$	1.0
G	$1.6 \pm 0.2$	$0.8 \pm 0.2$	$0.5 \pm 0.1$

#### Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

# KR-A5060 KR-A5060

## BLOCK DIAGRAM



# KR-A5060

## ADJUSTMENT

**AM section : If alignment point is "-", confirm the value. If not, replace the front end pack.**

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION</b> <b>SELECTOR: FM</b>							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev. 60dB $\mu$ (ANT. input)	Connect a DC voltmeter between TP803 and TP804. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dB $\mu$ (ANT. input)	Connect a frequency counter between TP805 and TP806. (TUNER UNIT)	AUTO 98.0MHz	L802 (TUNER UNIT)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev. Selector : L or R Pilot : $\pm 6.75$ kHz dev. 60dB $\mu$ (ANT. input)	(B)	98.0MHz	IFT (W02-)	Minimum distortion. (L or R)	
4	TUNING LEVEL	(A) 98.0MHz 0 dev. 18dB $\mu$ (ANT. input)	(B)	AUTO or MONO 98.0MHz	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
<b>AM SECTION</b> <b>SELECTOR: AM</b>							
(1)	TUNING LEVEL	(D) 1000 (999) kHz 26dB $\mu$ (ANT. input)	(B)	-	VR804 (TUNER UNIT)	Adjust VR804 and stop at the point where FLT901 (TUNED) goes on.	
<b>AUDIO SECTION</b>							
<1>	IDLE CURRENT	-	Connect a DC voltmeter across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR1 (L) VR2 (R) (AUDIO UNIT)	10mV	(d)

# KR-A5060

## AJUSTES

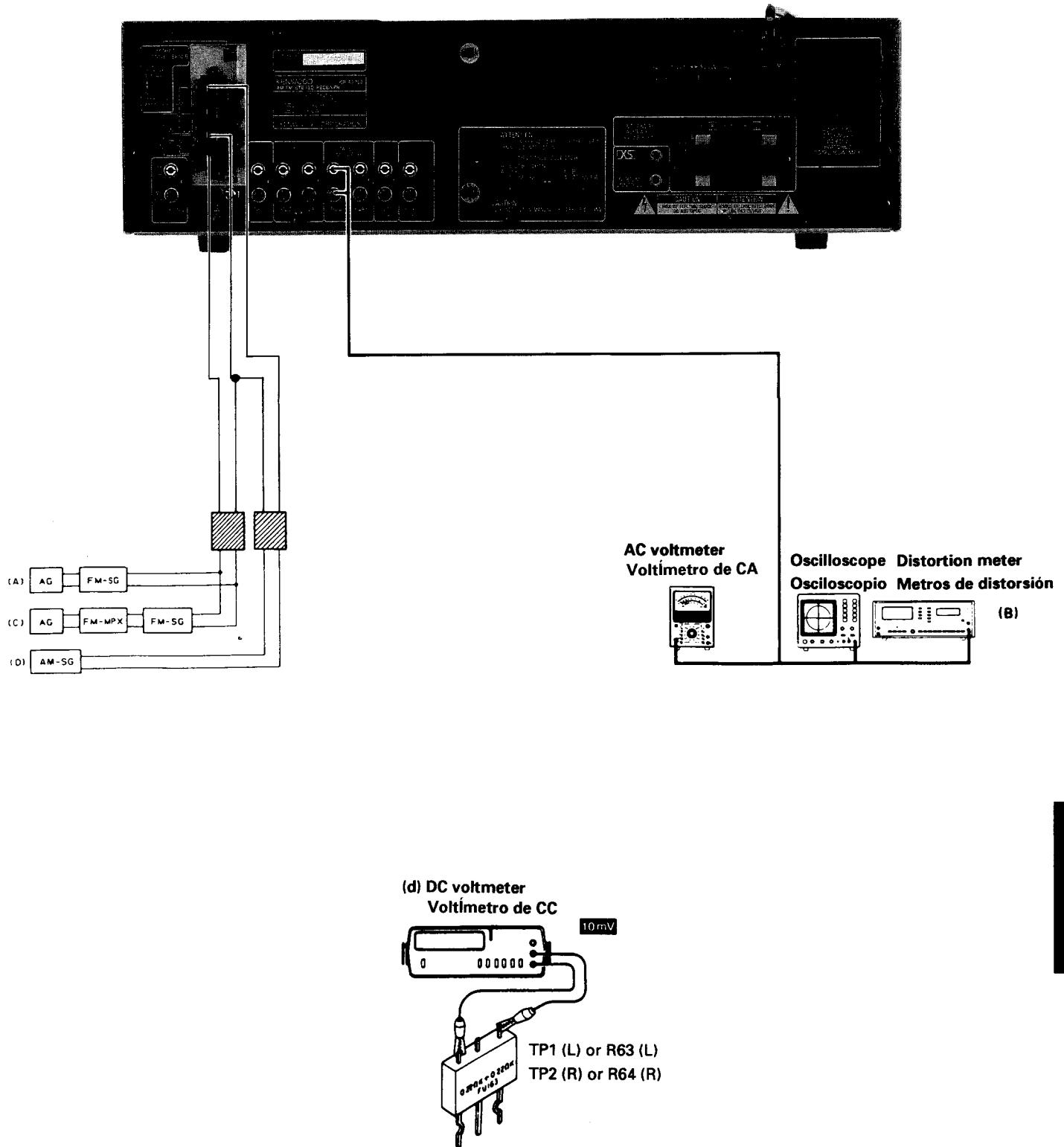
**Sección de AM : Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.**

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
<b>SECCIÓN DE FM</b> <b>SELECTOR: FM</b>							
1	DISCRIMINADOR	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev. 60dB $\mu$ (Entrada de antena)	Conecte un voltímetro de CC entre TP803 y TP804. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dB $\mu$ (Entrada de antena)	Conecte un Frecuencímetro entre TP805 y TP806. (UNIDAD DEL SINTONIZADOR)	AUTO 98.0MHz	L802 (UNIDAD DEL SINTONIZADOR)	19.00kHz	(b)
3	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev. Selector : L or R Pilot : $\pm 6.75$ kHz dev. 60dB $\mu$ (Entrada de antena)	(B)	98.0MHz	IFT (W02-)	Distorsión mínima. (L o R)	
4	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 18dB $\mu$ (Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
<b>SECCIÓN DE AM</b> <b>SELECTOR: AM</b>							
(1)	NIVEL DE SINTONÍA	(D) 1000 (999) kHz 26dB $\mu$ (Entrada de antena)	(B)	-	VR804 (UNIDAD DEL SINTONIZADOR)	Ajuste VR804 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
<b>SECCIÓN DE AUDIO</b>							
<1>	CORRIENTE EN REPOSO	-	Conecte un voltímetro de CC entre TP1 (L) y TP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR1 (L) VR2 (R) (UNIDAD AUDIO)	10mV	(d)

EXCEPT E.T

## **ADJUSTMENT/AJUSTES**

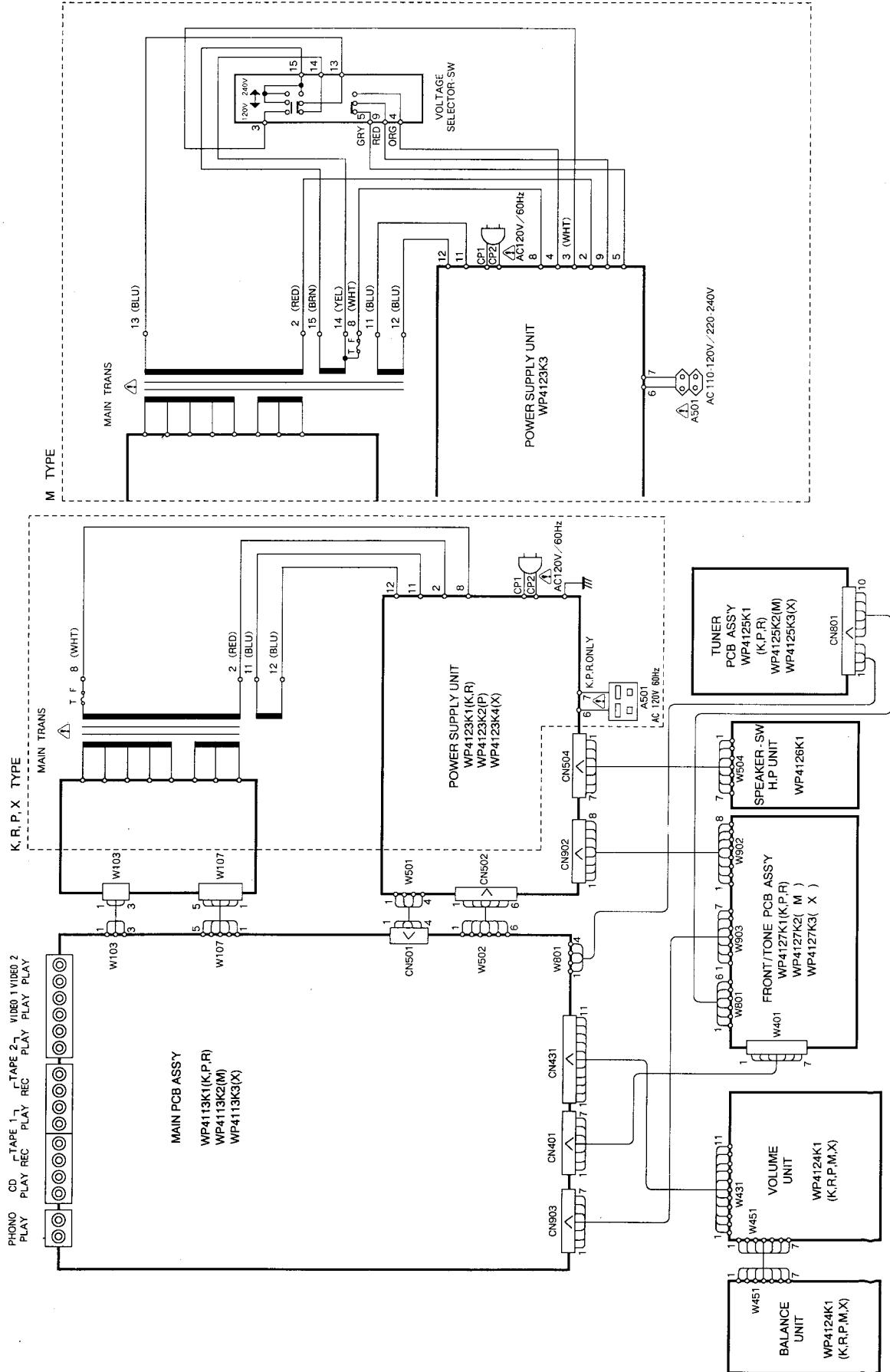
## SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



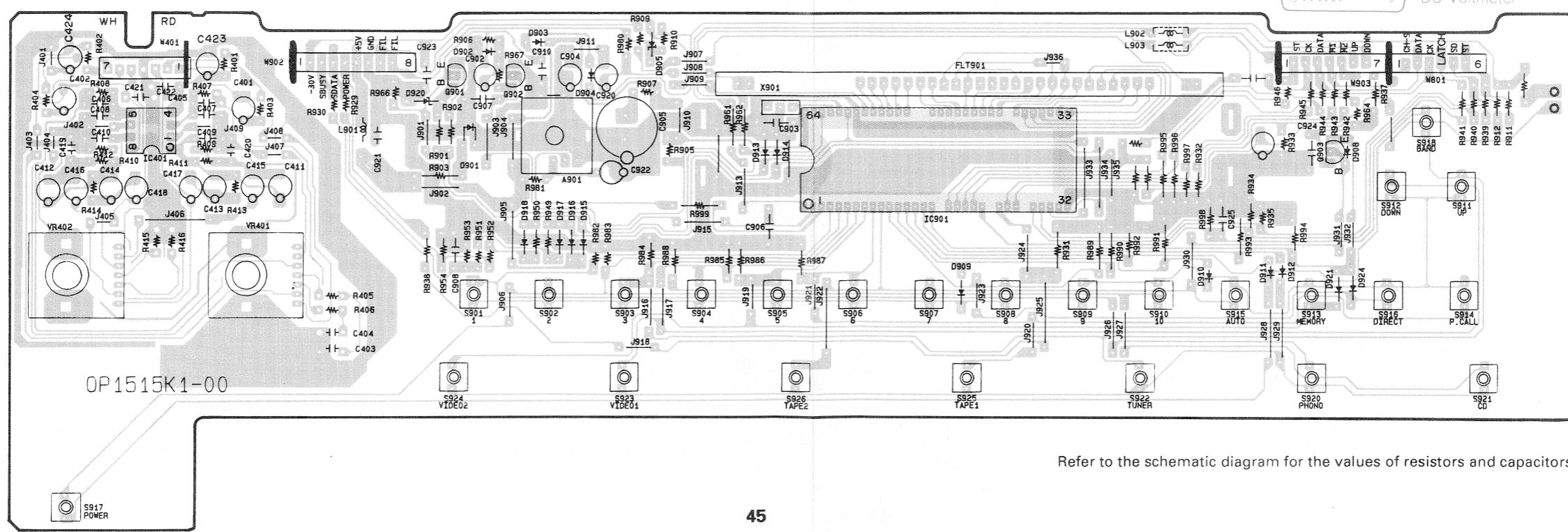
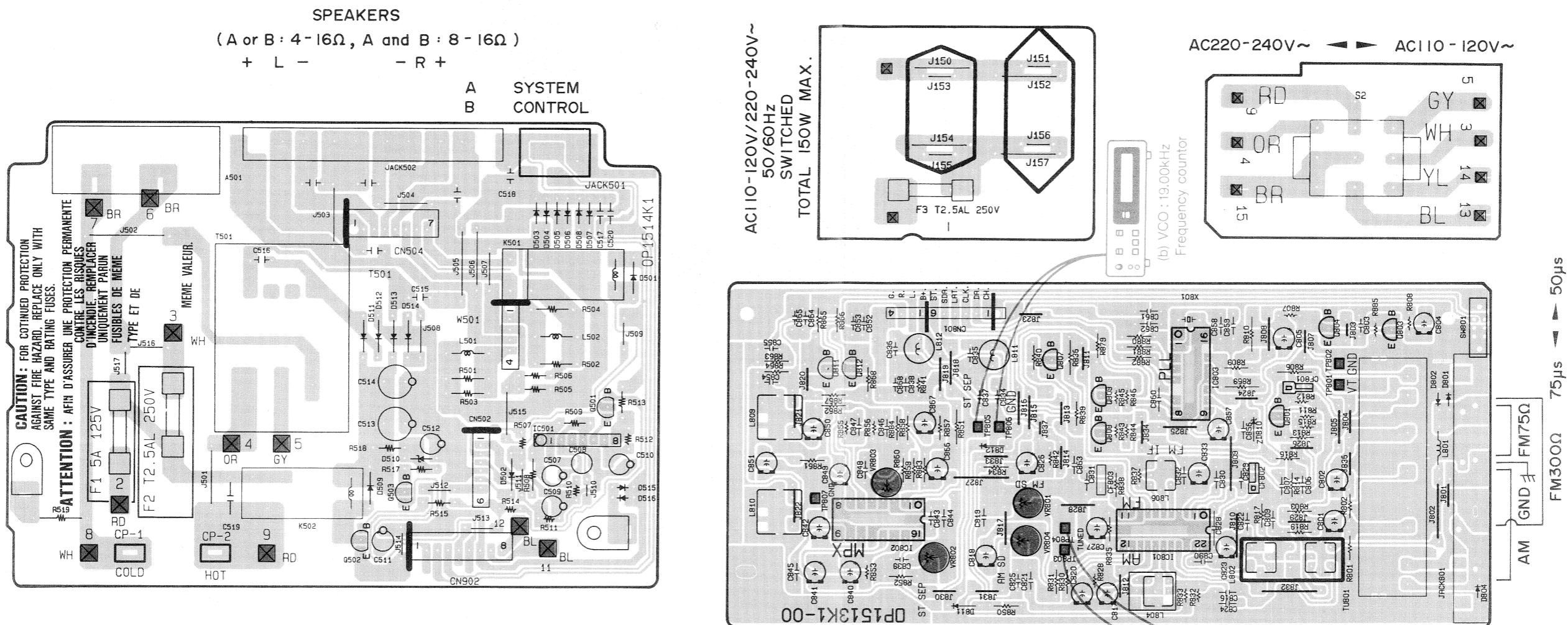
**KR-A5060**

## WIRING DIAGRAM

EXCEPT E, T

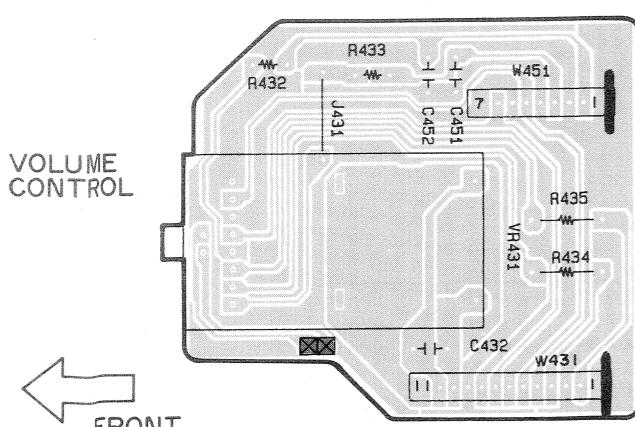
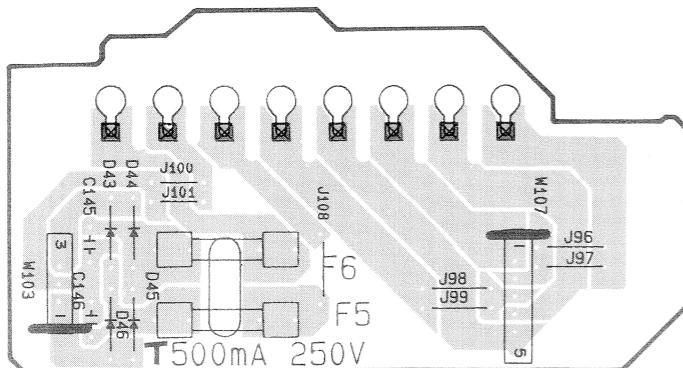


# PC BOARD (COMPONENT SIDE VIEW) : KR-A5060

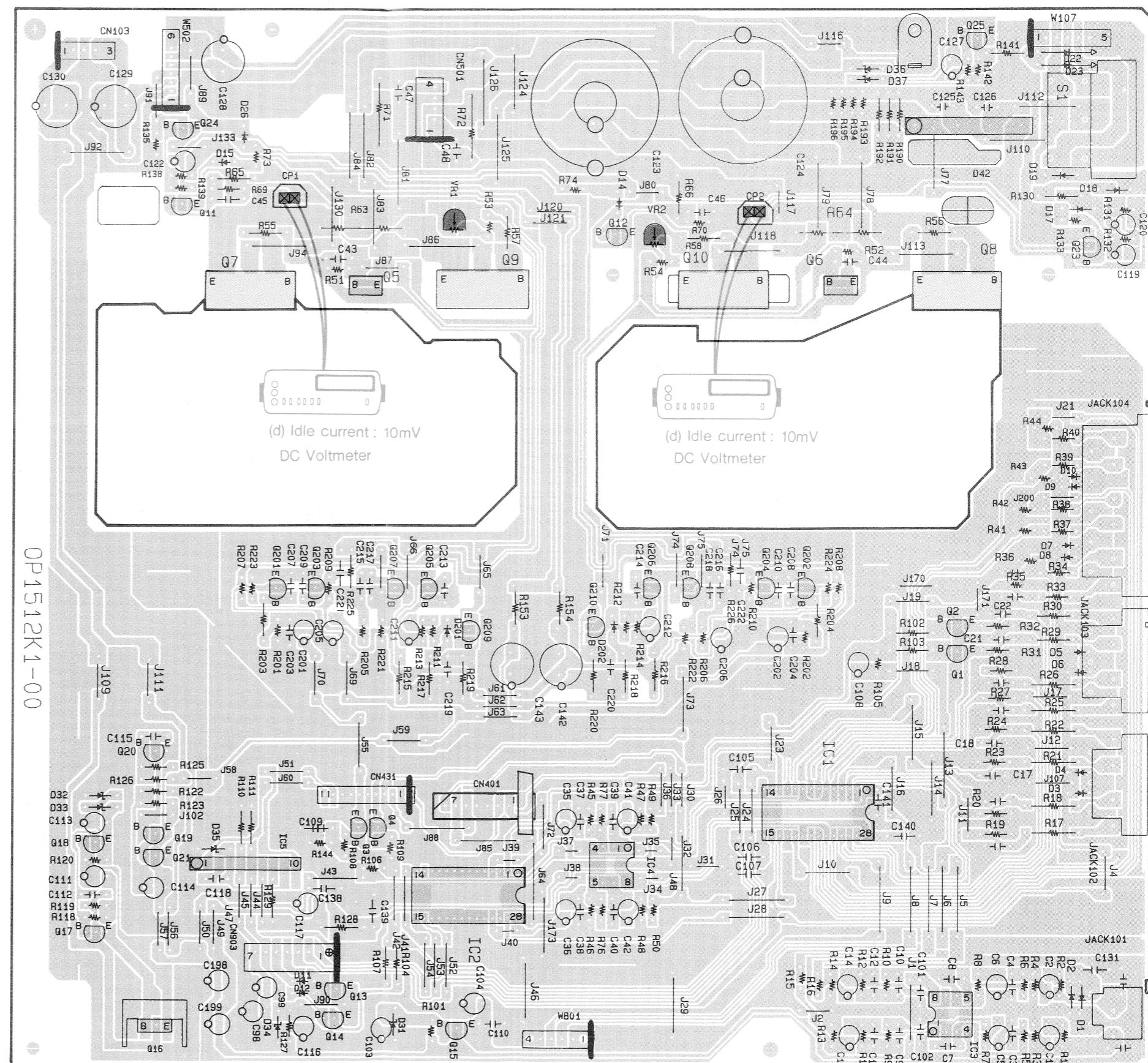


Refer to the schematic diagram for the values of resistors and capacitors.

**PC BOARD (COMPONENT SIDE VIEW) : KR-A5060**



47 FRONT

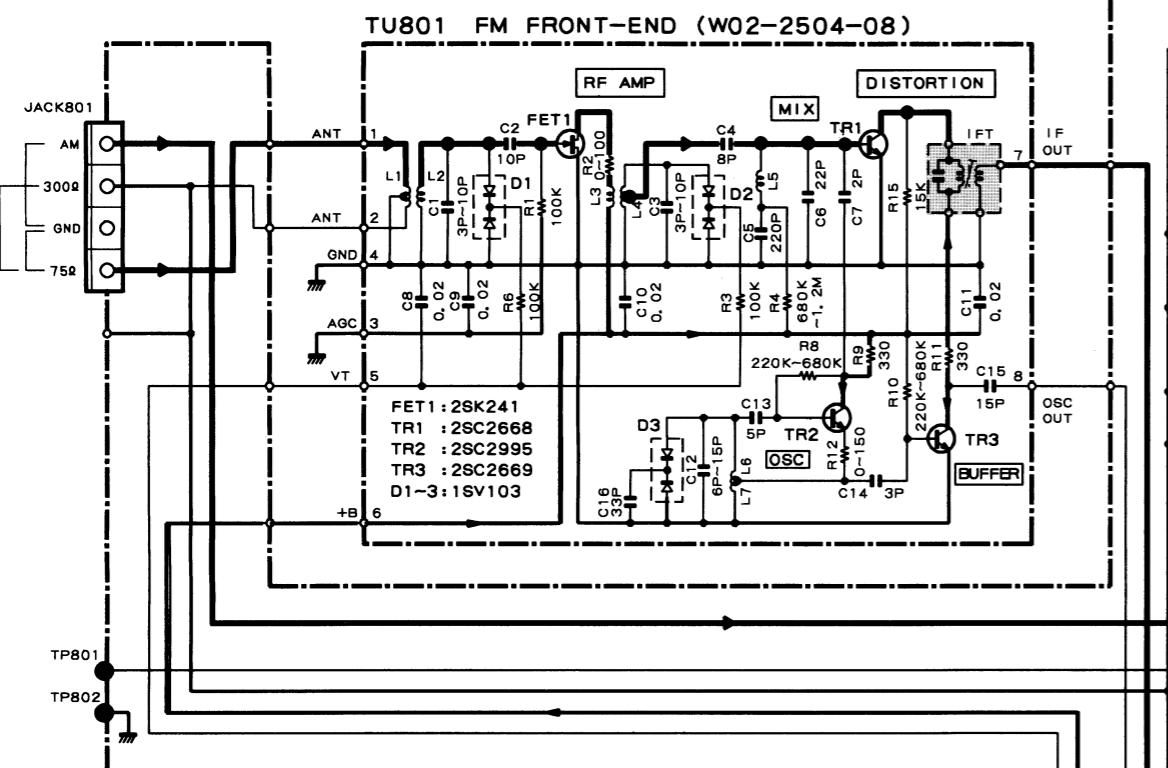


IMPEDANCE SELECTOR  
 B : LESS THAN 8Ω      A or B :  
 A and B : 8Ω      8Ω OR MORE  
 OR MORE

CD INPUT	TAPE 1 REC	TAPE 2 PLAY	(MONITOR) REC	VIDEO 1 PLAY	VIDEO 2 IN	R
----------	------------	-------------	---------------	--------------	------------	---

L R PHONO INPUT

A B C D E F G H I J



**TUNER PCB ASS 'Y**

**IC801** : LA1265      **D801, 802** : 1SS133  
**IC802** : AN7470      **811, 812**  
**IC803** : LM7001      **D810** : RD5. 1ES(B2)  
  
**Q801** : KTC31940  
**Q803** : 2SC1740S  
**811, 812**  
**Q804** : 2SC1845F  
**Q808, 809** : 2SA933S

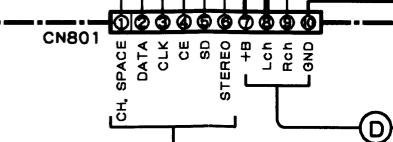
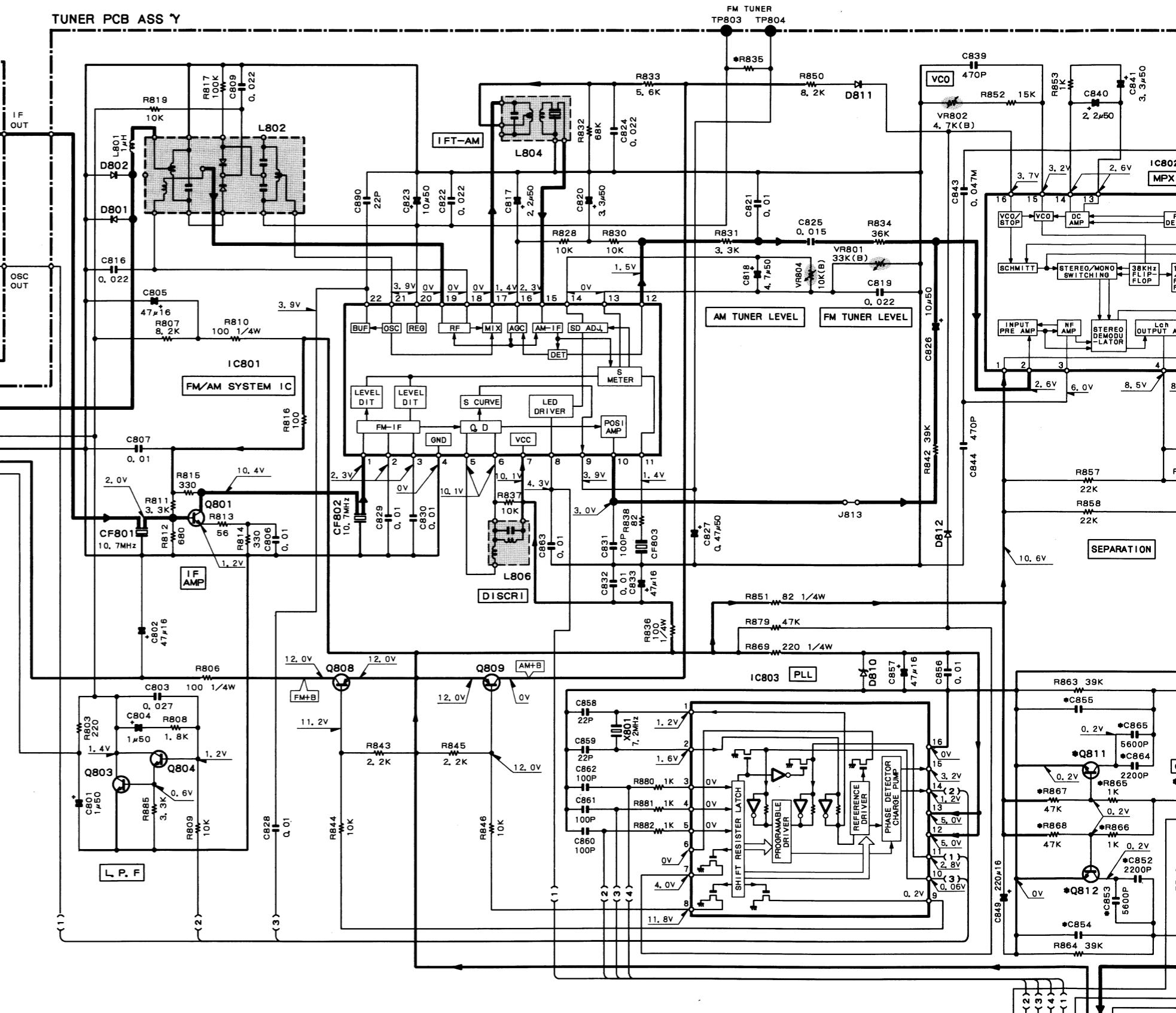
ABB	Q811 812	R835	R865-868	C852, 853 864, 865	C854, 855	SW801
K, P, R	NO	15K	NO	NO	0.022μF	NO
M	YES	39K	YES	YES	0.015μF	YES
X	NO	39K	NO	NO	0.015μF	NO

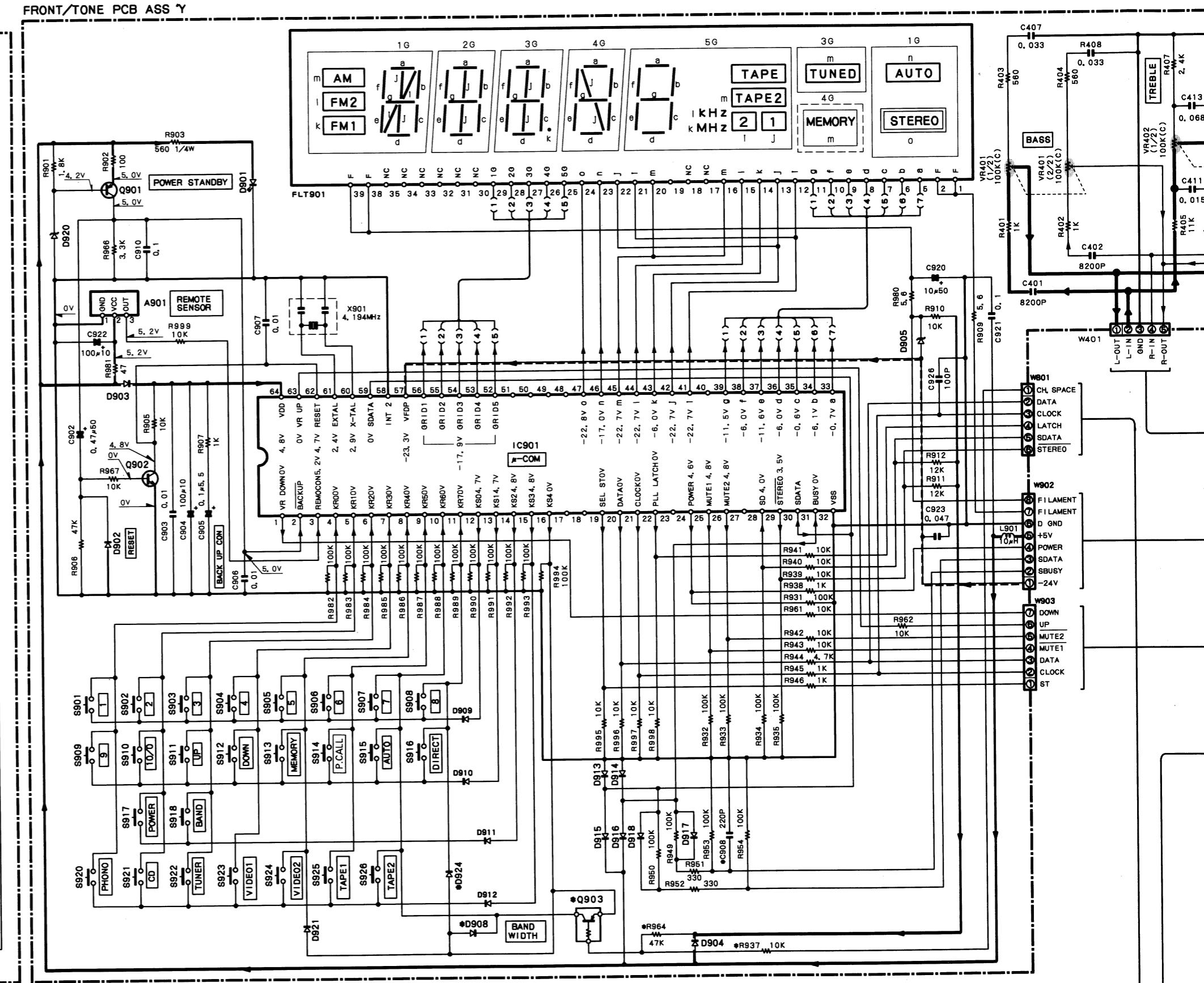
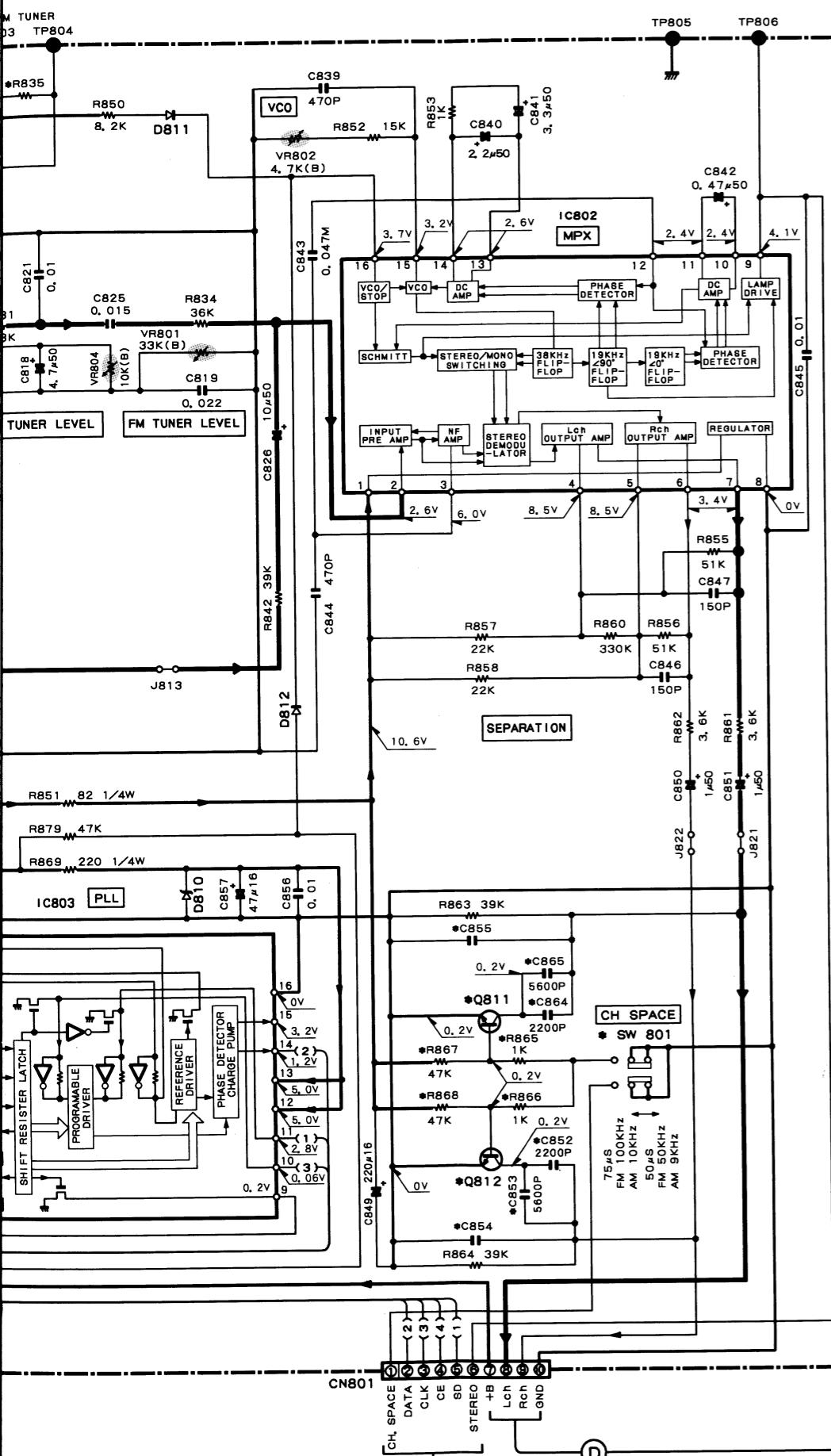
**FRONT/TONE PCB ASS 'Y**

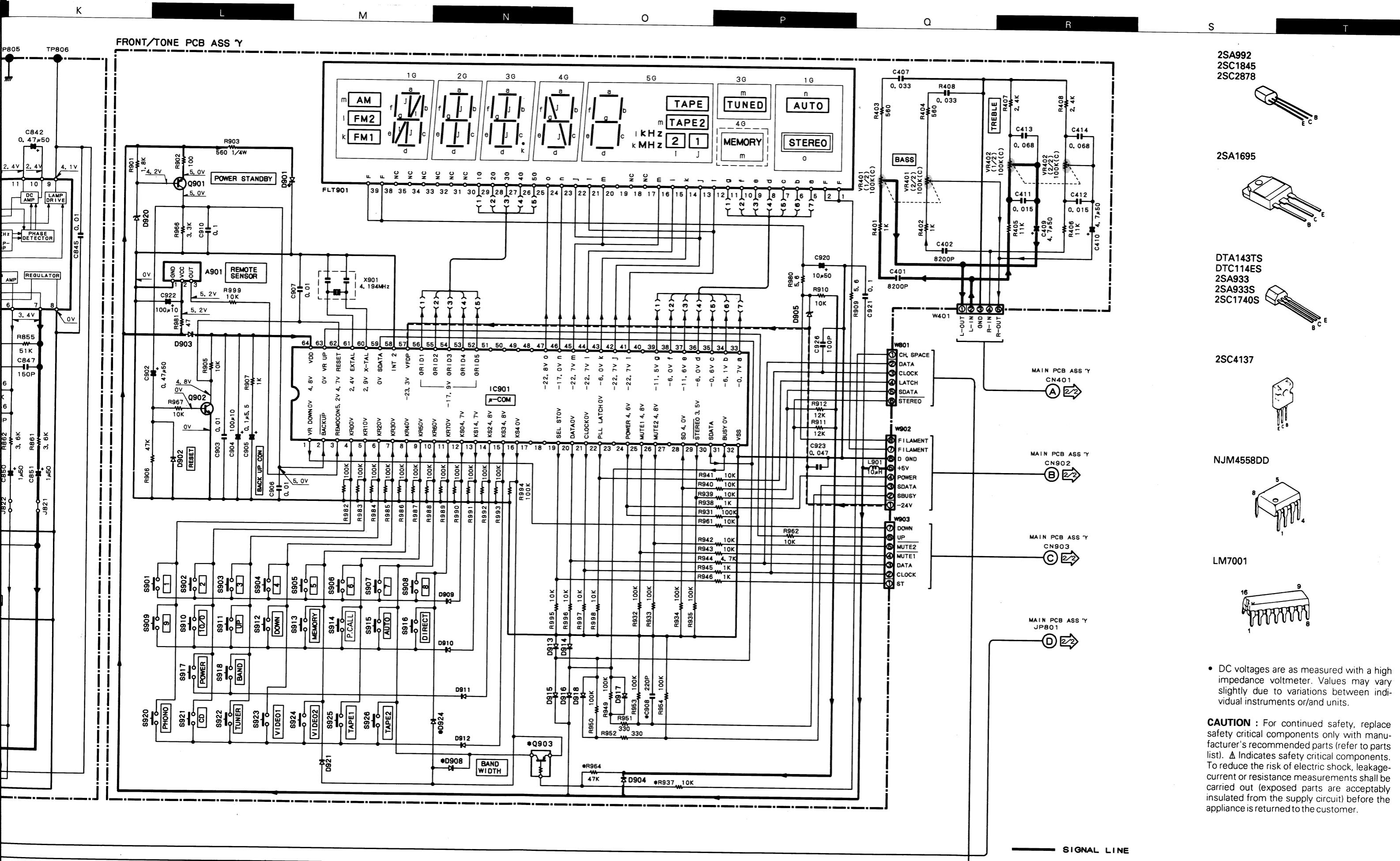
**IC901** : CXP5016-531S or  
**CXP5016-526S**      **D901** : B30-0413-05  
**D902-904, 908-918** : 1SS133  
**921, 924**  
**D905** : MTZJ6, 8B  
**D920** : RD4, 7ES(B2)  
  
**Q901** : 2SA933S  
**Q902** : 2SC1740S  
**Q903** : DTA143TS      **FLT901** : 5-MT-1670K  
  
**A901** : W02-1111-08

ABB	C908	Q903	D908	D924	R937, 964
K, P, R	YES	NO	NO	YES	NO
M	NO	YES	NO	NO	YES
X	NO	NO	YES	NO	NO

**TUNER PCB ASS 'Y**







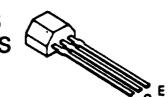
2SA992  
2SC1845  
2SC2878



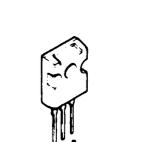
2SA1695



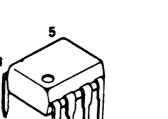
DTA143TS  
DTC114ES  
2SA933  
2SA933S  
2SC1740S



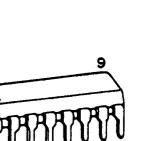
2SC4137



NJM4558DD



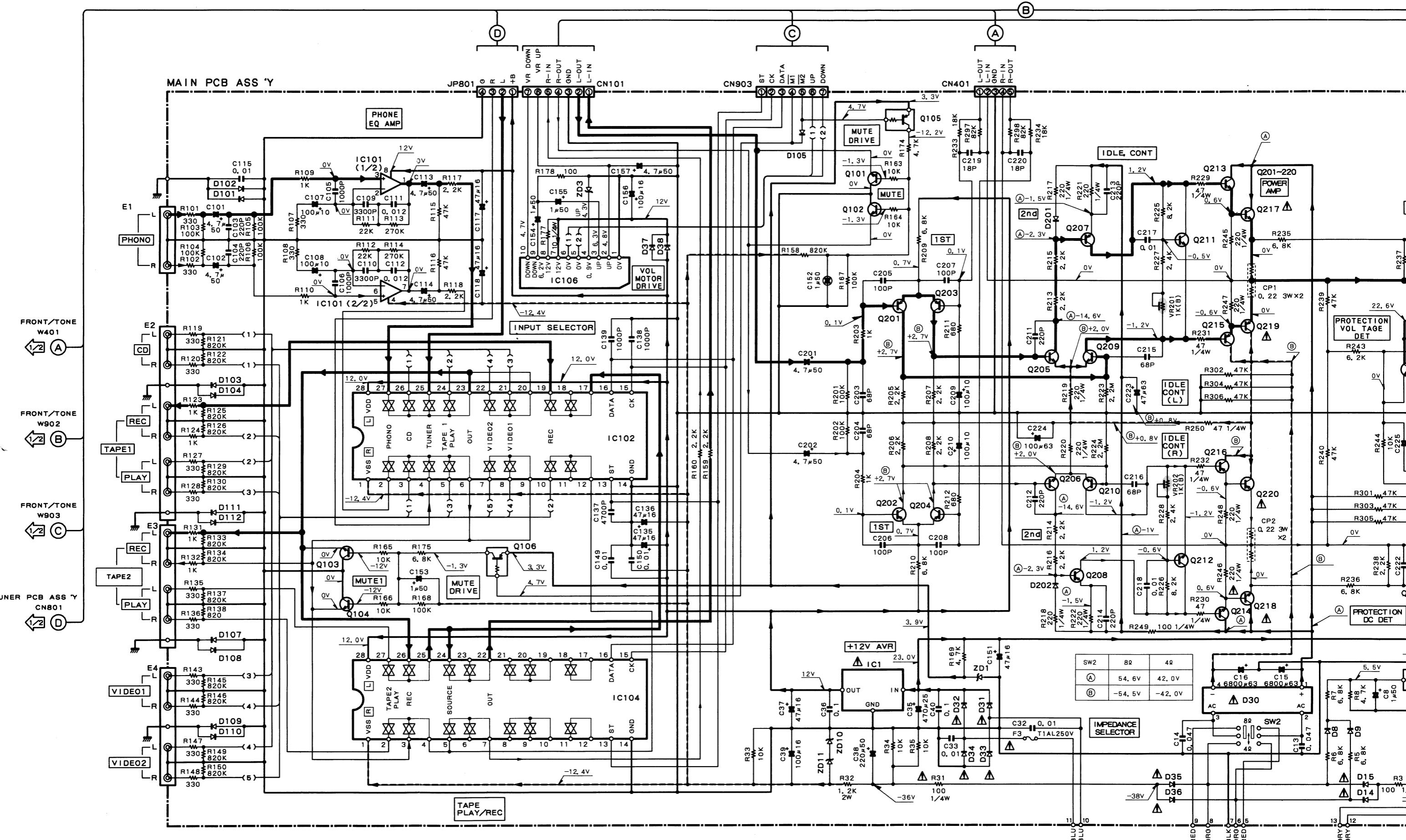
LM7001

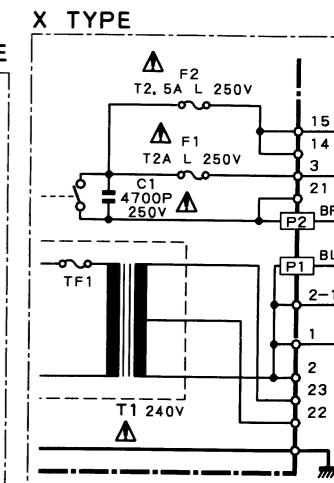
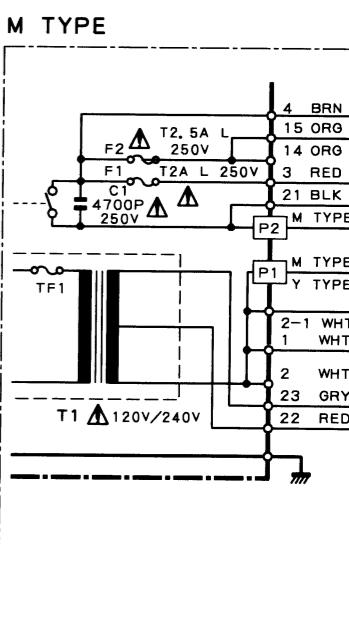
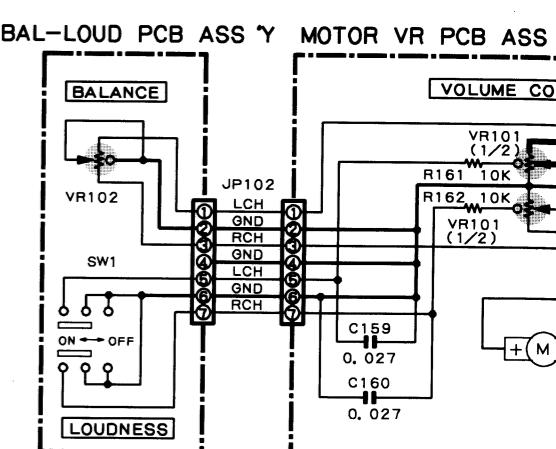
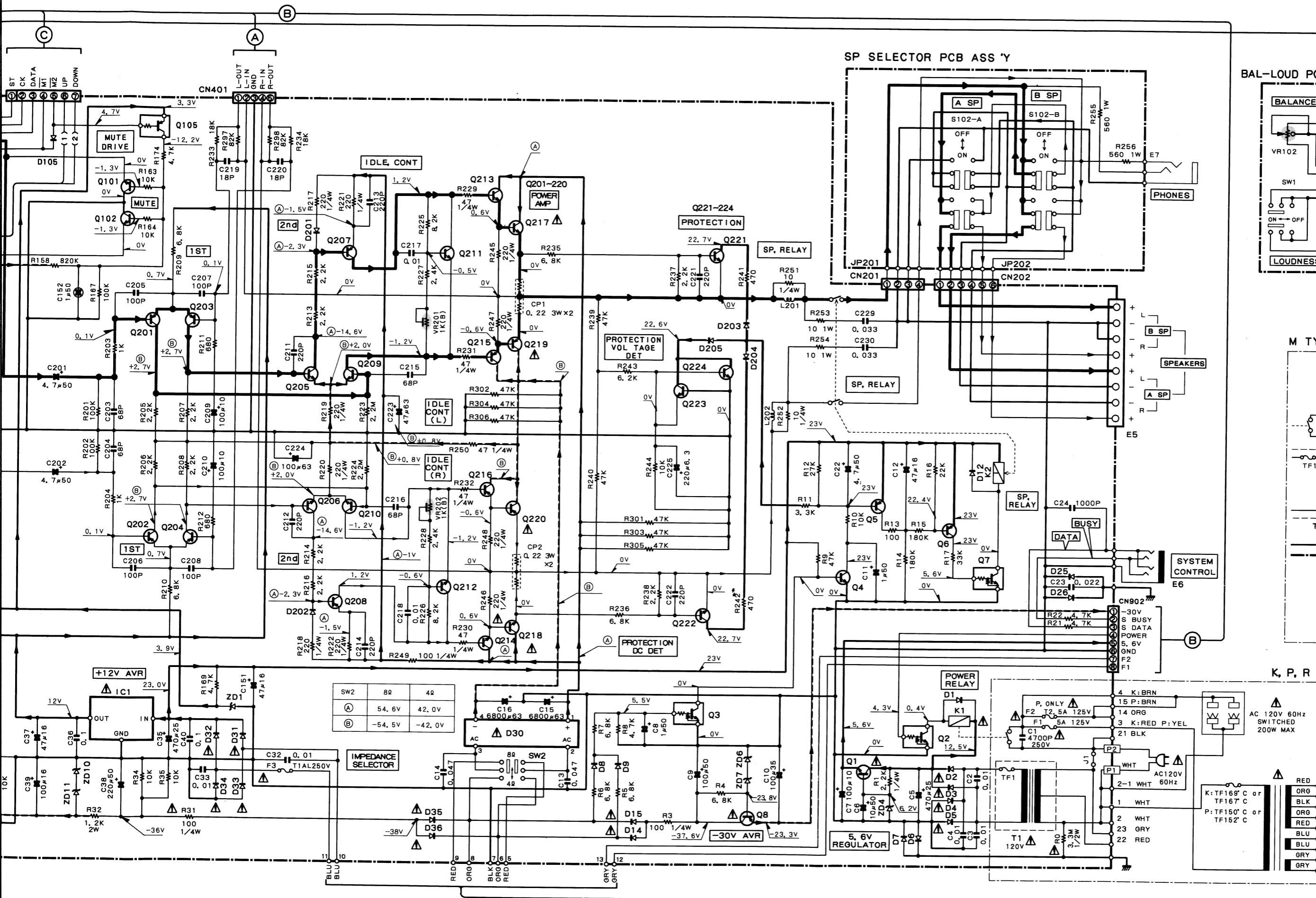


• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

U V W X Y Z AA AB AC AD





AE

AF

AG

AH

AI

AJ

AK

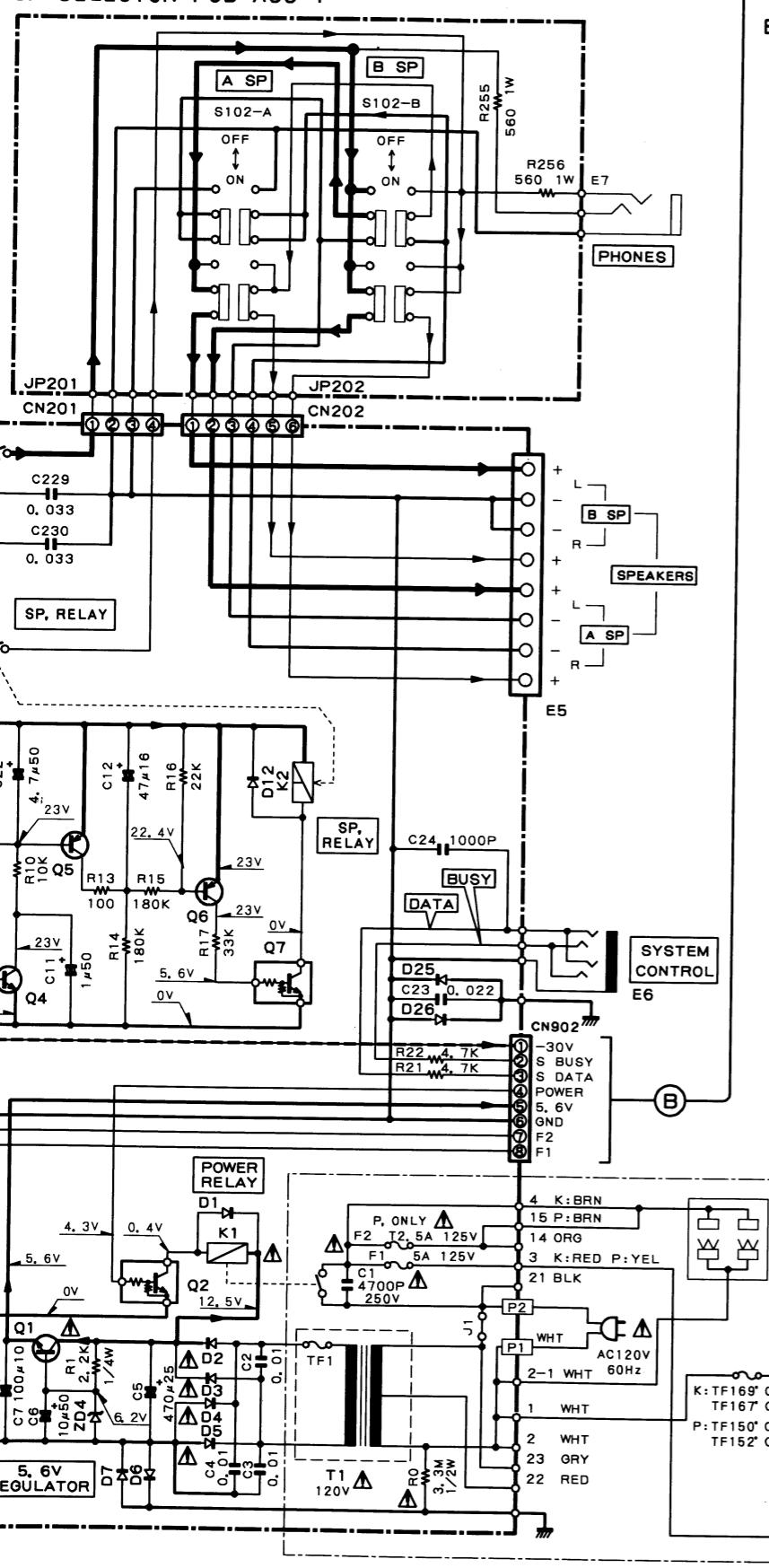
AL

AM

AN

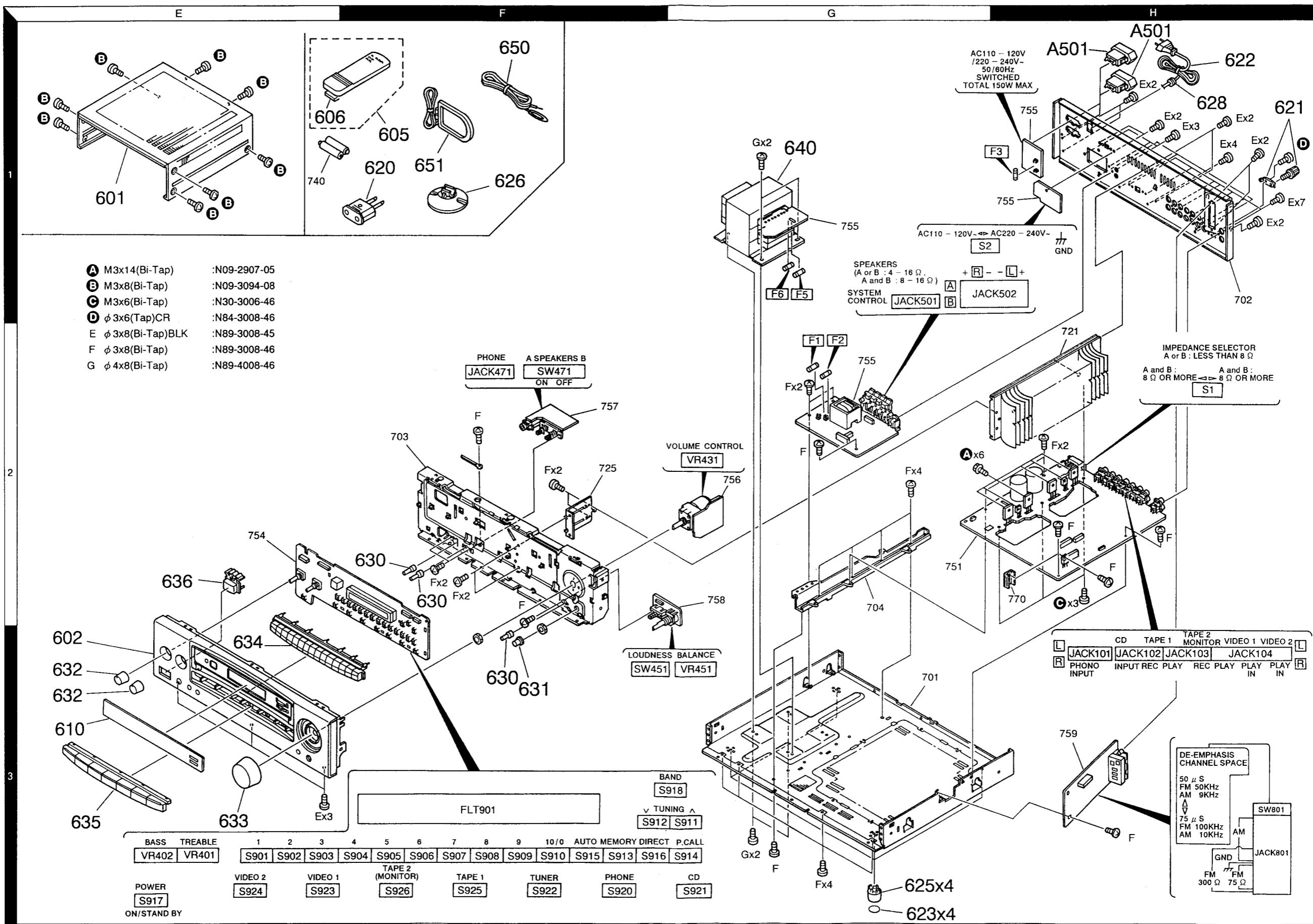
AN7470

## SP SELECTOR PCB ASS 'Y



# KR-A5060 KR-A5060

## EXPLODED VIEW (UNIT)



**Parts with the exploded numbers larger than 700 are not supplied.**



## PARTS LIST

6

× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Telle ohne Parts No. werden nicht geliefert.

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Telle ohne Parts No. werden nicht geliefert.

5

× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address	Parts No.	Description	Parts Name / 规 格	Desti- nation	Re- marks
参照番号	位 置	部品番号	部品名	部品名 / 规 格	仕	向
△ T501		L07-0789-08	TRANSFORMER			
X801		L07-0790-08	TRANSFORMER			
X901		L77-1122-05	CRYSTAL RESONATOR	4. 7.2MHz	X	
		L78-0209-05	CRYSTAL RESONATOR	4. 19MHz	M	
F	20	N89-3008-46	BINDING HEAD TAFTITE SCREW			
R55	-58	RD149B2E220J	FL-PR00F RD	22	J 1/4W	
R63	64	R90-0187-05	MULTI-COMP	0.22X2	K 5W	
R65	66	RD149B2E332J	FL-PR00F RD	3.3K	J 1/4W	
R71	72	RN149K3A10J	RN	10	J 1W	
R115		* RD149B2E010J	FL-PR00F RD	1.0	J 1/4W	
R116	117	* RN149K3D680J	RN	68	J 2W	
R121		RD149B2E101J	FL-PR00F RD	1.0	J 1.4W	
R128		RD149B2E101J	FL-PR00F RD	100	J 1.4W	
R129		RD149B2E100J	FL-PR00F RD	10	J 1/4W	
R130		RD149B2E101J	FL-PR00F RD	100	J 1/4W	
R141		RD149B2E101J	FL-PR00F RD	100	J 1/4W	
R153	154	RD149B2E70J	FL-PR00F RD	47	J 1/4W	
R215	216	RD149B2E51J	FL-PR00F RD	150	J 1/4W	
R217	220	RD149B2E221J	FL-PR00F RD	220	J 1/4W	
R71	72	* RN149K3A61J	RN	560	J 1W	
R501	-504	RD149B2E220J	FL-PR00F RD	22	J 1/4W	
R519		RD149B2E335J	RD	3.3M	J 1/2W	
R806		RD149B2E101J	FL-PR00F RD	100	J 1.4W	
R910		RD149B2E101J	RD	100	J 1.4W	
R836		RD149B2E101J	FL-PR00F RD	100	J 1/4W	
R851		RD149B2E220J	FL-PR00F RD	82	J 1/4W	
R869		RD149B2E221J	FL-PR00F RD	220	J 1/4W	
VR1 <sup>1,2</sup>		R12-1066-05	TRIMMING POT.	1K	1K	
VR40 <sup>1,2</sup>		R39-0003-08	POTENTIOMETER	BASS, TREBLE 10KB		
VR431		R39-0001-08	POTENTIOMETER	VOLUME 100KB X3		
VR451		R10-5071-08	POTENTIOMETER	BALANCE		
VR801		R12-3166-08	TRIM POT.	3.3KB VCO		
VR802		R12-1053-05	TRIM POT.	4.7KB VCO		
VR804		R12-3071-05	TRIM POT.	10KB AM TUNE LEVEL		
△ K501		S51-2092-05	MAGNETIC RELAY POWER			
K502		S76-0032-08	MAGNETIC RELAY SPEAKER			
S1		S62-0032-08	SLIDE SWITCH	IMPEDANCE SEL		
S2		S31-0010-05	SLIDE SWITCH	VOLTAGE SELECT		
S901-926		* S70-0030-08	TACT SWITCH	KEY BOARD		
SW451		S68-0040-08	PUSH SWITCH	LOUDNESS		
SW471		S62-0032-08	PUSH SWITCH	SPEAKERS		
SW801		S62-0012-08	SLIDE SWITCH	CH. SPACE		
D1	-12	ISS131	D1			
D14	-15	ISS131	D1			
D17	-19	ISS131	D1			
D22	-23	ISS131	D1			
D26		ISS131	D1			
D31		RD13BS(B2)	ZENER DIODE			
D32		MTZ26.2B	ZENER DIODE			
D33		MTZ26.2B	ZENER DIODE			
D34		MTZ2.3.9B	ZENER DIODE			
D35		RDS1ES(B2)	ZENER DIODE			
D36	,37	MTZ12B(B2)	ZENER DIODE			

EXCEPT E, T

L: Scandinavia K: USA P: Canada R: Mexico  
Y: PX (Far East, Hawaii) T: England E: Europe G: Germany  
Y: AAFFES (Europe) X: Australia M: Other Areas

△ indicates safety critical components.

Ref. No.	Address	Parts No.	Description	Parts Name / 规 格	Parts No.	Parts Name / 规 格	Desti- nation	Re- marks
参照番号	位 置	部品番号	部品名	部品名 / 规 格	部品番号	部品名 / 规 格	仕	向
△ T501		L07-0789-08	TRANSFORMER		D5FB20	DIODE		
X801		L07-0790-08	TRANSFORMER		1N4002A	DIODE		
X901		L77-1122-05	CRYSTAL RESONATOR	4. 7.2MHz	1SS133	DIODE		
		L78-0209-05	CRYSTAL RESONATOR	4. 19MHz	1SS133	DIODE		
F	20	N89-3008-46	BINDING HEAD TAFTITE SCREW		1NA002A	DIODE		
R55	-58	RD149B2E220J	FL-PR00F RD	22	D509	DIODE		
R63	64	R90-0187-05	MULTI-COMP	0.22X2	D510	DIODE		
R65	66	RD149B2E332J	FL-PR00F RD	3.3K	D511-514	ZENER DIODE		
R71	72	RN149K3A10J	RN	10	D801	DIODE		
R115		* RD149B2E010J	FL-PR00F RD	1.0	D810	DIODE		
R116	117	* RN149K3D680J	RN	68	D811-812	ZENER DIODE		
R121		RD149B2E101J	FL-PR00F RD	1.0	D902-904	DIODE		
R128		RD149B2E101J	FL-PR00F RD	100	D905	DIODE		
R129		RD149B2E100J	FL-PR00F RD	10	D908	DIODE		
R130		RD149B2E101J	FL-PR00F RD	100	D909	DIODE		
R141		RD149B2E101J	FL-PR00F RD	100	D909-918	DIODE		
R153	154	RD149B2E70J	FL-PR00F RD	47	D920	ZENER DIODE		
R215	216	RD149B2E51J	FL-PR00F RD	150	D924	DIODE		
R217	220	RD149B2E221J	FL-PR00F RD	220	FL901	FLUORESCENT INDICATOR TUBE		
R71	72	* RN149K3A61J	RN	560	IC1	IC(C16CH BILATERAL SELECTOR SW)		
R501	-504	RD149B2E220J	FL-PR00F RD	22	IC2	IC(C16CH BILATERAL SELECTOR SW)		
R519		RD149B2E335J	RD	3.3M	IC3	IC(C16CH BILATERAL SELECTOR SW)		
R806		RD149B2E101J	FL-PR00F RD	100	IC5	IC(C16CH BILATERAL SELECTOR SW)		
R910		RD149B2E101J	RD	100	IC401	IC(C16CH BILATERAL SELECTOR SW)		
R836		RD149B2E101J	FL-PR00F RD	100	IC501	IC(C16CH BILATERAL SELECTOR SW)		
R851		RD149B2E220J	FL-PR00F RD	82	IC801	IC(C16CH BILATERAL SELECTOR SW)		
R869		RD149B2E221J	FL-PR00F RD	220	IC802	IC(C16CH BILATERAL SELECTOR SW)		
VR1 <sup>1,2</sup>		R12-1066-05	TRIMMING POT.	1K	IC803	IC(C16CH BILATERAL SELECTOR SW)		
VR40 <sup>1,2</sup>		R39-0003-08	POTENTIOMETER	BASS, TREBLE 10KB	IC810	IC(C16CH BILATERAL SELECTOR SW)		
VR431		R39-0001-08	POTENTIOMETER	VOLUME 100KB X3	IC910	IC(C16CH BILATERAL SELECTOR SW)		
VR451		R10-5071-08	POTENTIOMETER	BALANCE	IC901	IC(C16CH BILATERAL SELECTOR SW)		
VR801		R12-3166-08	TRIM POT.	3.3KB VCO	Q11	-4		
VR802		R12-1053-05	TRIM POT.	4.7KB VCO	Q15	-6		
VR804		R12-3071-05	TRIM POT.	10KB AM TUNE LEVEL	Q17	8		
△ K501		S51-2092-05	MAGNETIC RELAY POWER		Q17	18		
K502		S76-0032-08	MAGNETIC RELAY SPEAKER		Q19	,20		
S1		S62-0032-08	SLIDE SWITCH	IMPEDANCE SEL	Q21			
S2		S31-0010-05	SLIDE SWITCH	VOLTAGE SELECT	Q23			
S901-926		* S70-0030-08	TACT SWITCH	KEY BOARD	Q24			
SW451		S68-0040-08	PUSH SWITCH	LOUDNESS	Q25			
SW471		S62-0032-08	PUSH SWITCH	SPEAKERS	Q26			
SW801		S62-0012-08	SLIDE SWITCH	CH. SPACE	Q27			
D1	-12	ISS131	D1		Q28			
D14	-15	ISS131	D1		Q29			
D17	-19	ISS131	D1		Q30			
D22	-23	ISS131	D1		Q31			
D26		ISS131	D1		Q32			
D31		RD13BS(B2)	ZENER DIODE		Q20	-204		
D32		MTZ26.2B	ZENER DIODE		Q209	-208		
D33		MTZ26.2B	ZENER DIODE		Q501	,210		
D34		MTZ2.3.9B	ZENER DIODE		Q503	250882		
D35		RDS1ES(B2)	ZENER DIODE		Q803	250313140		
D36	,37	MTZ12B(B2)	ZENER DIODE		Q804	25017405		
					Q808	2501935		

Ref. No.	Address	Parts No.	Description	Parts Name / 规 格	Parts No.	Parts Name / 规 格	Desti- nation	Re- marks
参照番号	位 置	部品番号	部品名	部品名 / 规 格	部品番号	部品名 / 规 格	仕	向
△ T501		L07-0789-08	TRANSFORMER		D5FB20	DIODE		
X801		L07-0790-08	TRANSFORMER		1N4002A	DIODE		
X901		L77-1122-05	CRYSTAL RESONATOR	4. 7.2MHz	MTZJ6.2B	DIODE		
		L78-0209-05	CRYSTAL RESONATOR	4. 19MHz	1NA002A	DIODE		
F	20	N89-3008-46	BINDING HEAD TAFTITE SCREW		1SS133	DIODE		
R55	-58	RD149B2E220J	FL-PR00F RD	22	D509	DIODE		
R63	64	R90-0187-05	MULTI-COMP	0.22X2	D510	DIODE		
R65	66	RD149B2E332J	FL-PR00F RD	3.3K	D511-514	ZENER DIODE		
R71	72	RN149K3A10J	RN	10	D802	DIODE		
R115		* RD149B2E010J	FL-PR00F RD	1.0	D810	DIODE		
R116	117	* RN149K3D680J	RN	68	D811-812	ZENER DIODE		
R121		RD149B2E101J	FL-PR00F RD	1.0	D902-904	DIODE		
R128		RD149B2E101J	FL-PR00F RD	100	D905	ZENER DIODE		
R129		RD149B2E100J	FL-PR00F RD	10	D908	ZENER DIODE		
R130		RD149B2E101J	FL-PR00F RD	100	D909	ZENER DIODE		
R141		RD149B2E101J	FL-PR00F RD	100	D909-918	ZENER DIODE		
R153	154	RD149B2E70J	FL-PR00F RD	47	D920	ZENER DIODE		
R215	216	RD149B2E51J	FL-PR00F RD	150	D924	DIODE		
R217	220	RD149B2E221J	FL-PR00F RD	220	FL901	FLUORESCENT INDICATOR TUBE		
R71	72	* RN149K3A61J	RN	560	IC1	IC(C16CH BILATERAL SELECTOR SW)		
R501	-504	RD149B2E220J	FL-PR00F RD	22	IC2	IC(C16CH BILATERAL SELECTOR SW)		
R519		RD149B2E335J	RD	3.3M	IC3	IC(C16CH BILATERAL SELECTOR SW)		
R806		RD149B2E101J	FL-PR00F RD	100	IC5	IC(C16CH BILATERAL SELECTOR SW)		
R910		RD149B2E101J	RD	100	IC401	IC(C16CH BILATERAL SELECTOR SW)		
R836		RD149B2E101J	FL-PR00F RD	100	IC501	IC(C16CH BILATERAL SELECTOR SW)		
R851		RD149B2E220J	FL-PR00F RD	82	IC801	IC(C16CH BILATERAL SELECTOR SW)		
R869		RD149B2E221J	FL-PR00F RD	220	IC802			

## PARTS LIST

## EXCEPT E,T

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

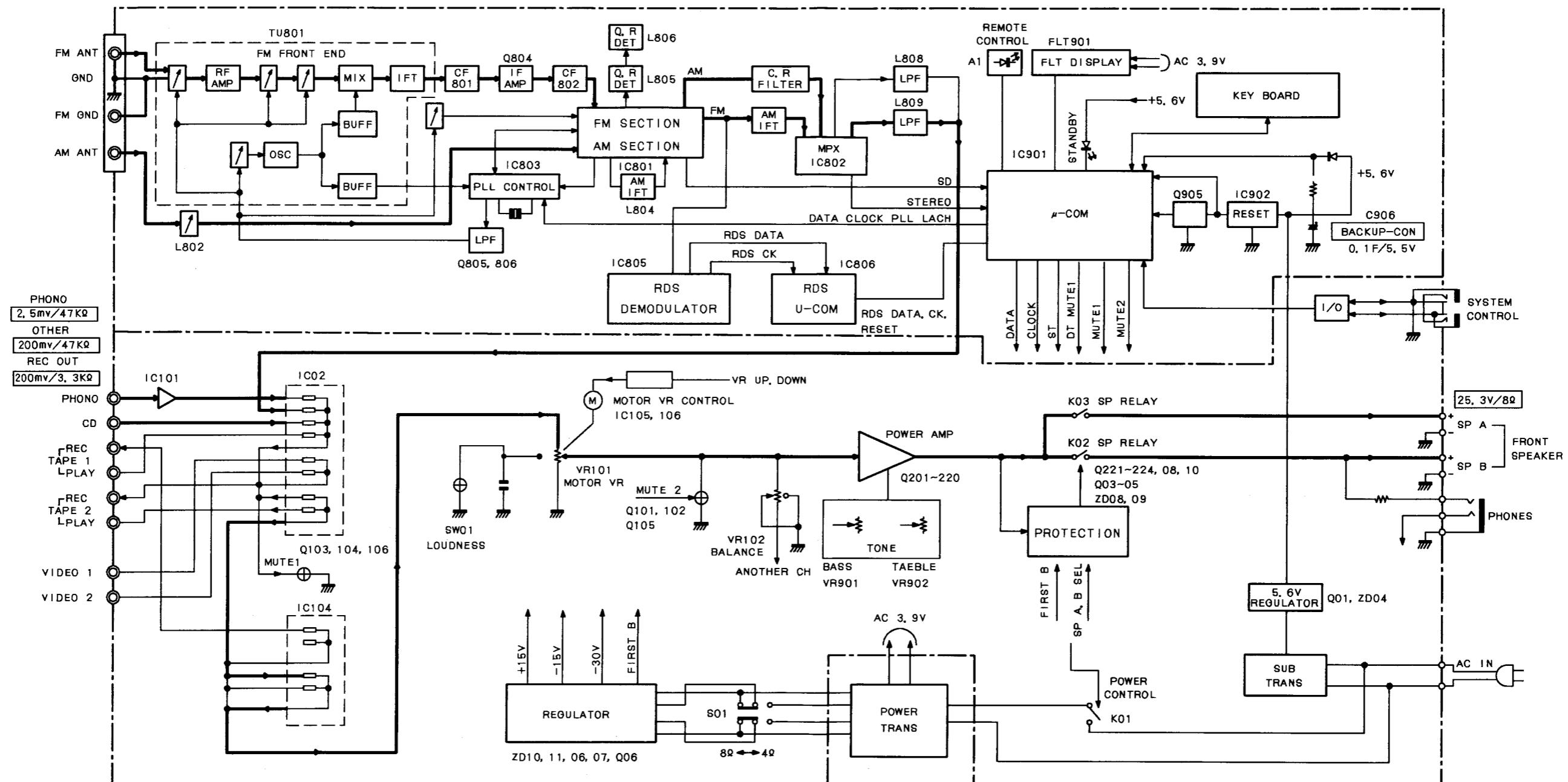
7

Ref. No.	Address	Parts No.	品名 部品番号	Description	品名 規格	Desti- nation 仕向	Re- marks 備考
Q811-812		2SC1740S	TRANSISTOR			M	
Q901		2SA933S	TRANSISTOR			M	
Q902		2SC1740S	TRANSISTOR			M	
Q903		DTA143TS	DIGITAL TRANSISTOR				
A901		W02-1111-08	ELECTRIC CIRCUIT MODULE				
TU801		W02-1042-05	FM FRONT END UNIT			KPMXR	

L : Scandinavia   K : USA   P : Canada   R : Mexico  
Y : PX (Far East Hawaii) T : England   E : Europe   G : Germany  
V : AAES (Europe)   X : Australia   M : Other Areas

△ indicates safety critical components

# KR-A4060/A5060 KR-A4060/A5060 BLOCK DIAGRAM



# KR-A4060/A5060

## ADJUSTMENT

**AM section : If alignment point is "-", confirm the value. If not, replace the front end pack.**

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
<b>FM SECTION</b>							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 40$ kHz dev. 60dB $\mu$ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L805 (TUNER UNIT)	0V.	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. 60dB $\mu$ (ANT. input)	Connect a Distortion meter (1kHz)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	Minimum distortion. (L or R)	
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. 60dB $\mu$ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. Selector : L or R Pilot : $\pm 6.0$ kHz dev. 60dB $\mu$ (ANT. input)	(B)	98.0MHz	IFT (Front end pack)	Minimum distortion. (L or R)	
5	SEPARATION	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. Selector : L or R Pilot : $\pm 6.0$ kHz dev. 60dB $\mu$ (ANT. input)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Minimum cross talk.	
6	TUNING LEVEL	(A) 98.0MHz 0 dev. 17dB $\mu$ (ANT. input)	(B)	AUTO or MONO 98.0MHz	VR802 (TUNER UNIT)	Adjust VR802 and stop at the point where FLT901 (TUNED) goes on.	
<b>AM SECTION</b>							
(1)	TUNING LEVEL	(D) 999MHz 26dB $\mu$ (ANT. input)	(B)	—	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
<b>AUDIO SECTION</b>							
<1>	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR201 (L) VR202 (R) (AUDIO UNIT)	10mV	

# KR-A4060/A5060

## AJUSTES

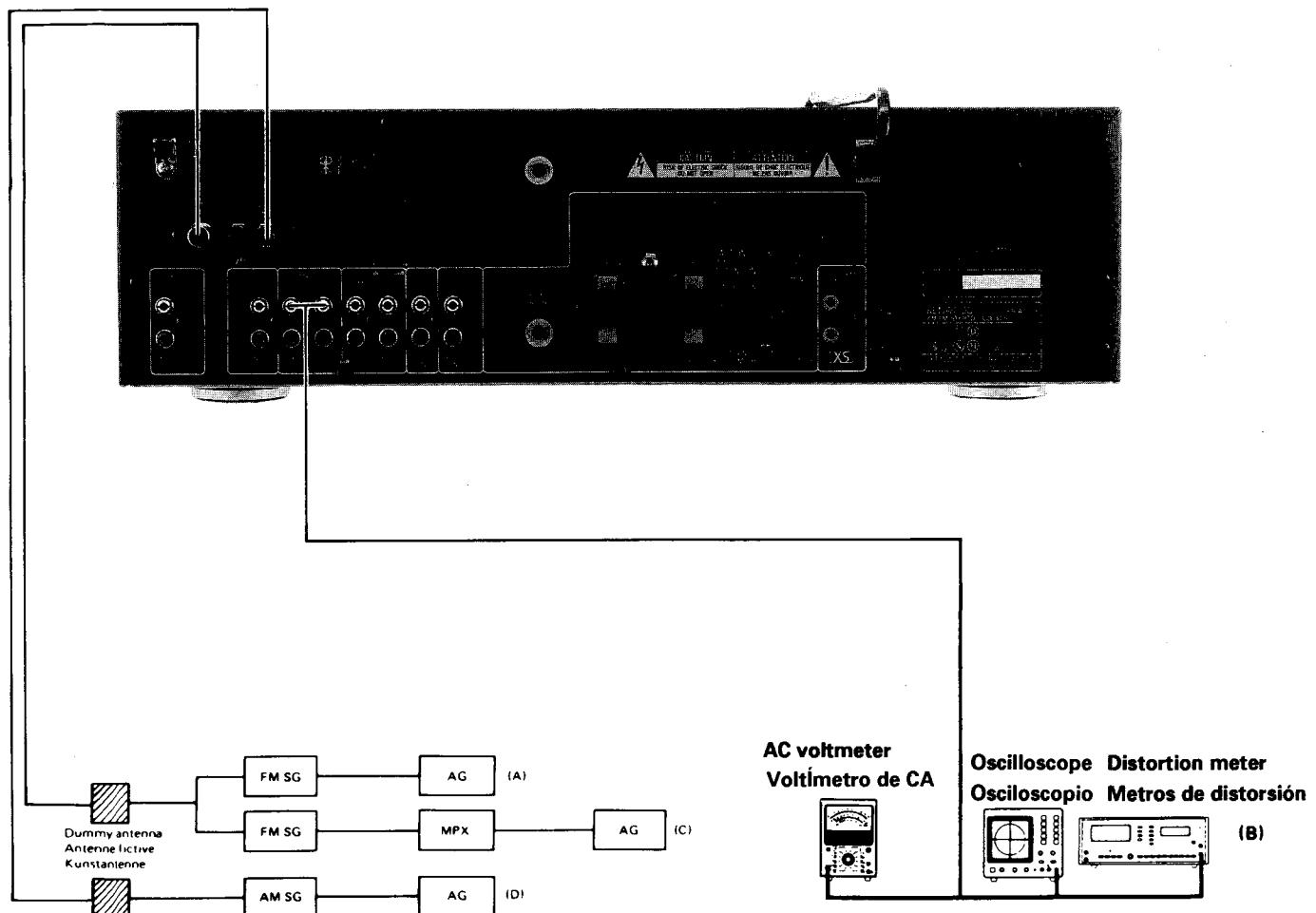
**Sección de AM : Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.**

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
<b>SECCIÓN DE FM</b>							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 40$ kHz dev. 60dB $\mu$ (Entrada de antena)	Conecte un voltímetro de CC entre TP801 y TP802. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L805 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. 60dB $\mu$ (Entrada de antena)	Conecte un medidor de Distorsión. (1kHz)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	Distortión mínima. (L o R)	
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. 60dB $\mu$ (Entrada de antena)	Conecte un voltímetro de CC entre TP801 y TP802. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
4	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. Selector : L o R Piloto : $\pm 6.0$ kHz dev. 60dB $\mu$ (Entrada de antena)	(B)	98.0MHz	IFT (Paquete de entrada)	Distortión mínima. (L o R)	
5	SEPARACIÓN	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev. Selector : L o R Piloto : $\pm 6.0$ kHz dev. 60dB $\mu$ (Entrada de antena)	(B)	AUTO 98.0MHz	VR803 (UNIDAD DEL SINTONIZADOR)	Diáfonía mínima.	(b)
6	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 17dB $\mu$ (Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR802 (UNIDAD DEL SINTONIZADOR)	Ajuste VR802 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
<b>SECCIÓN DE AM</b>							
(1)	NIVEL DE SINTONÍA	(D) 999MHz 26dB $\mu$ (Entrada de antena)	(B)	—	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
<b>SECCIÓN DE AUDIO</b>							
<1>	CORRIENTE EN REPOSO	—	Conecte un voltímetro de CC entre CP1 (L) y CP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR201 (L) VR202 (R) (UNIDAD AUDIO)	10mV	

# KR-A4060/A5060

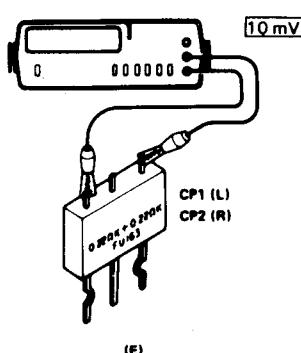
## ADJUSTMENT/AJUSTES

### SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



### System connections/Raccordements du système/System-Anschlüsse

#### (E) DC voltmeter Voltímetro de CC

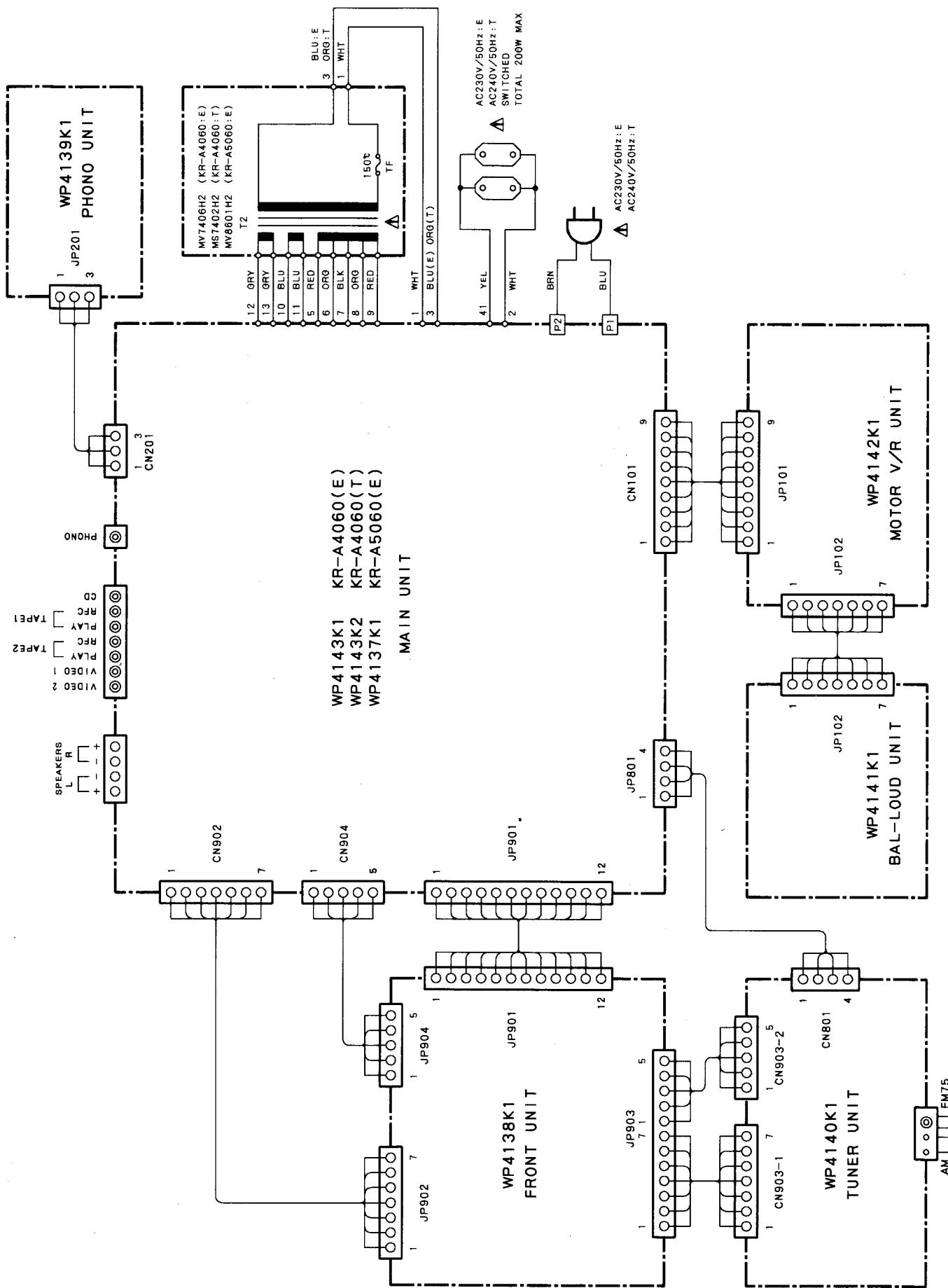


(E)

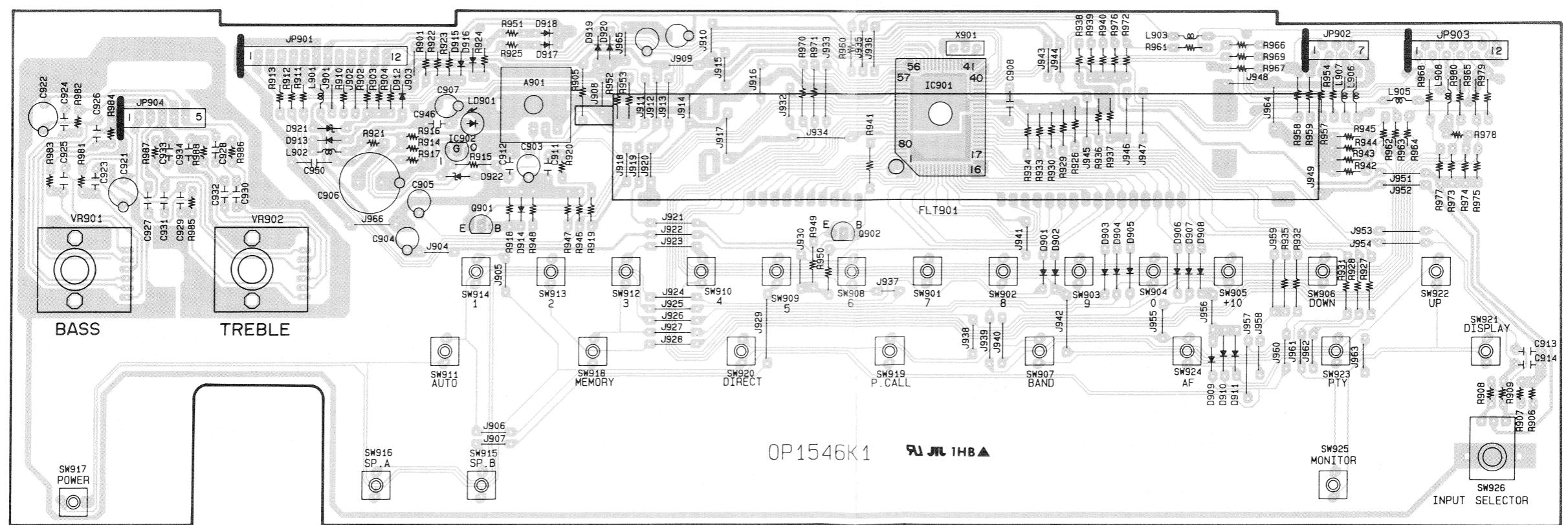
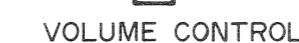
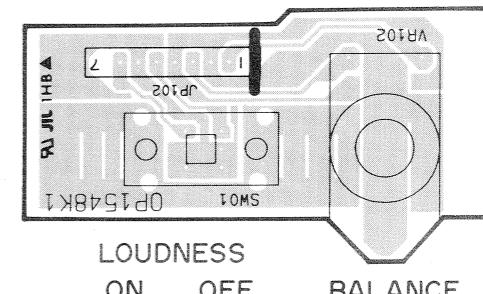
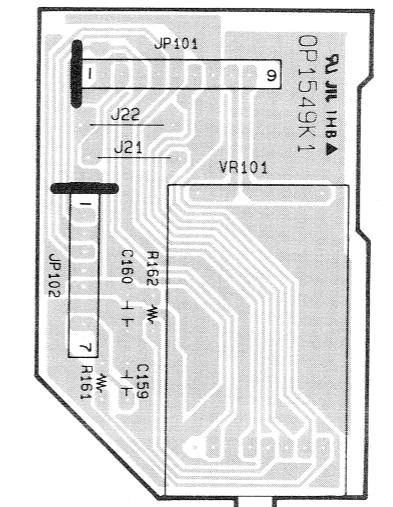
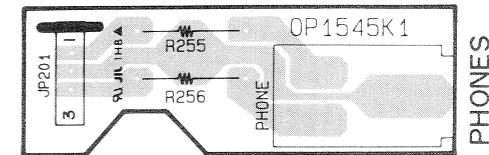
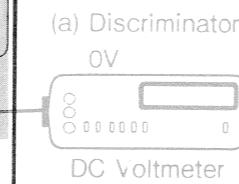
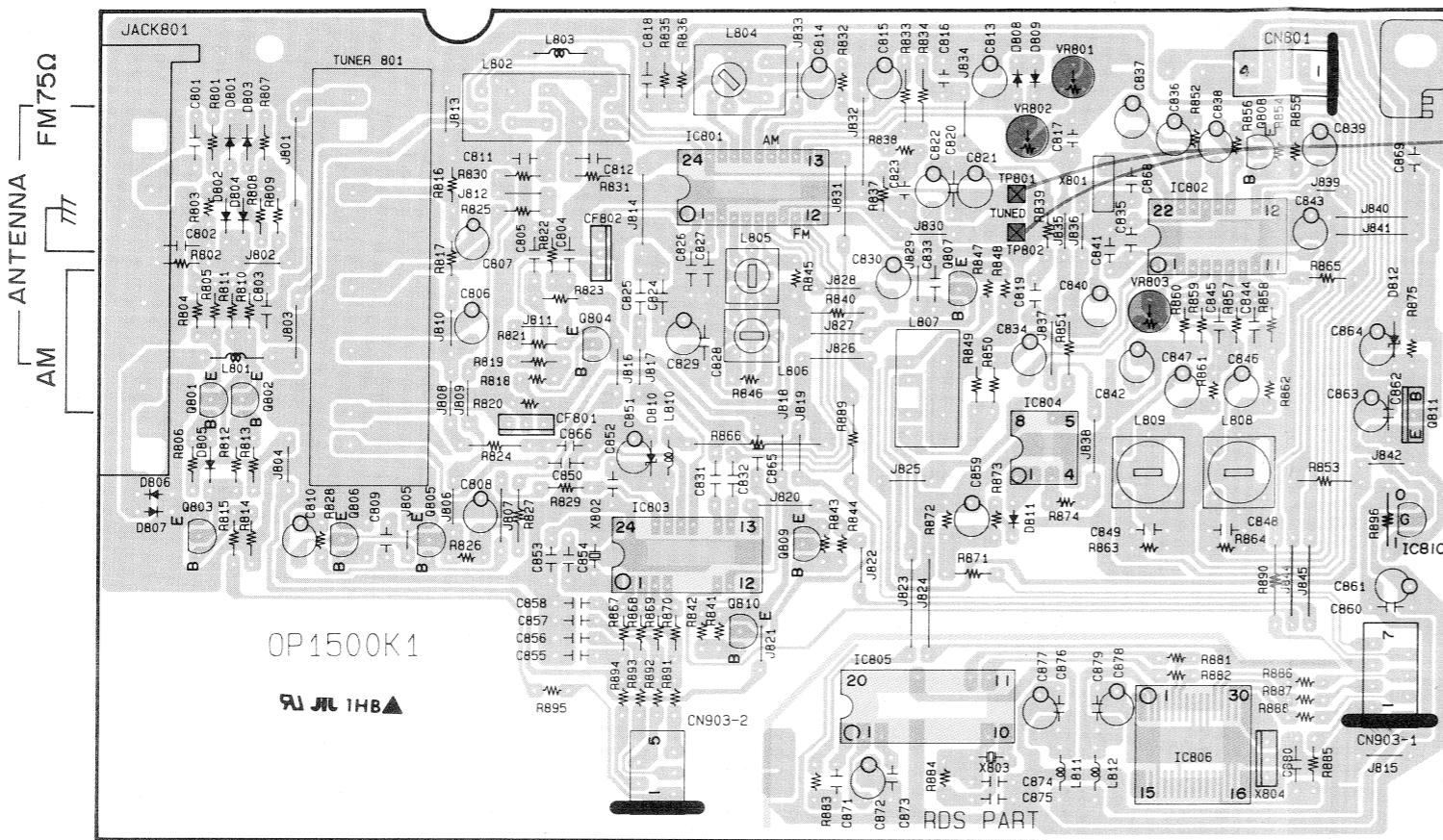
E,T

# KR-A4060/A5060

## WIRING DIAGRAM

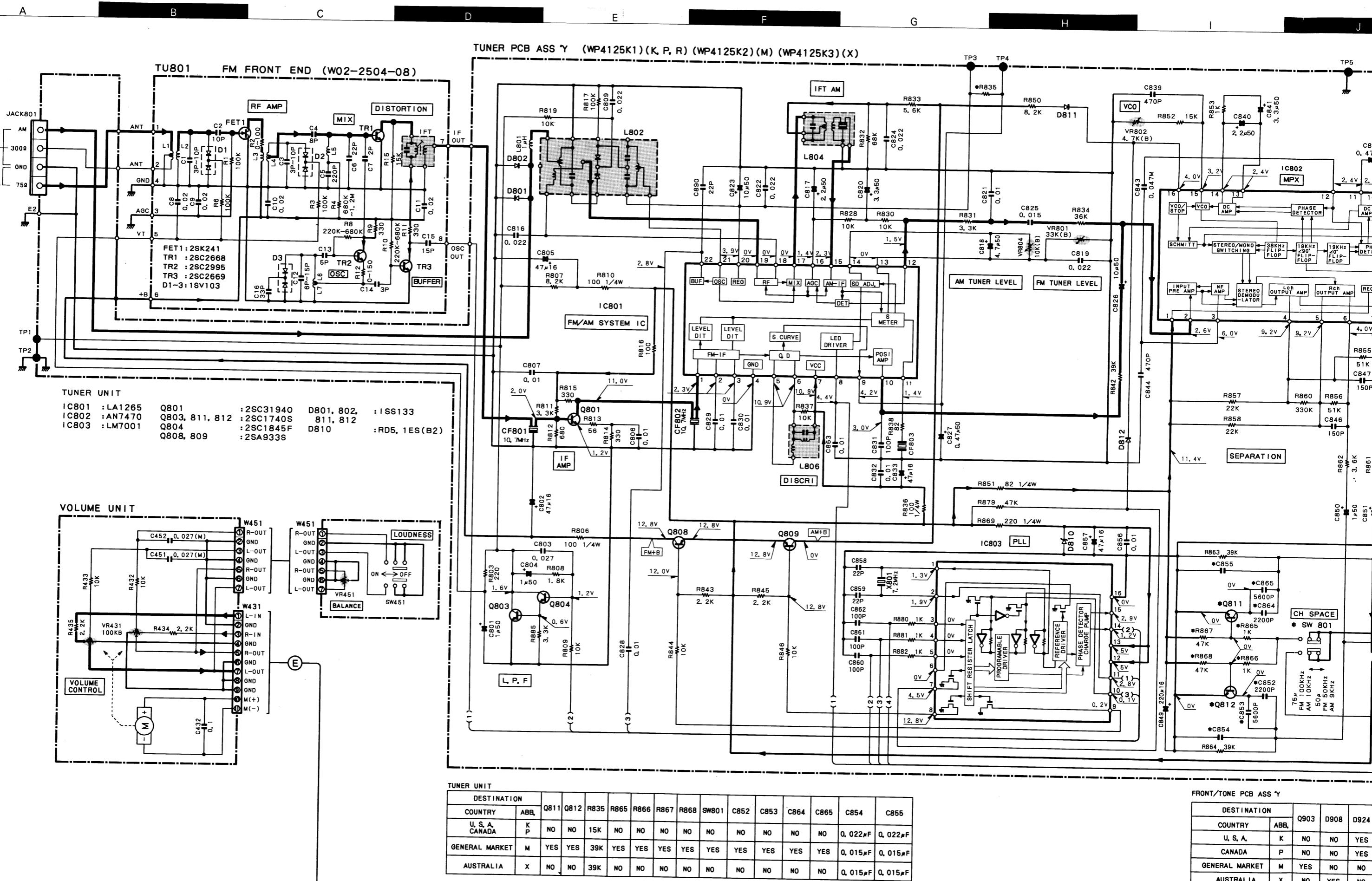


**PC BOARD (COMPONENT SIDE VIEW) : KR-A4060/A5060**



Refer to the schematic diagram for the values of resistors and capacitors





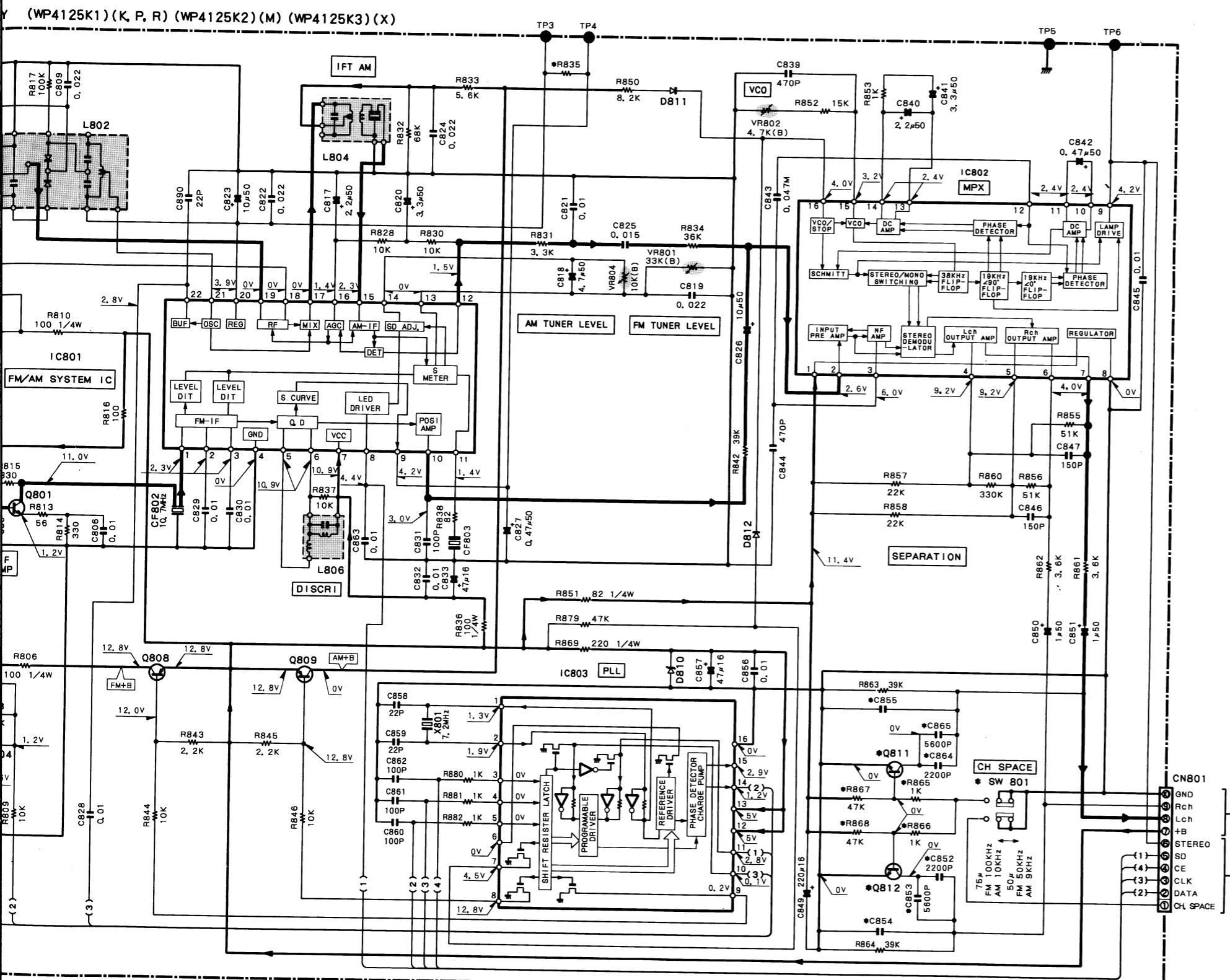
Q903 D908 D924 R

U. S. A. K NO NO YES

CANADA P NO NO YES

GENERAL MARKET M YES NO NO

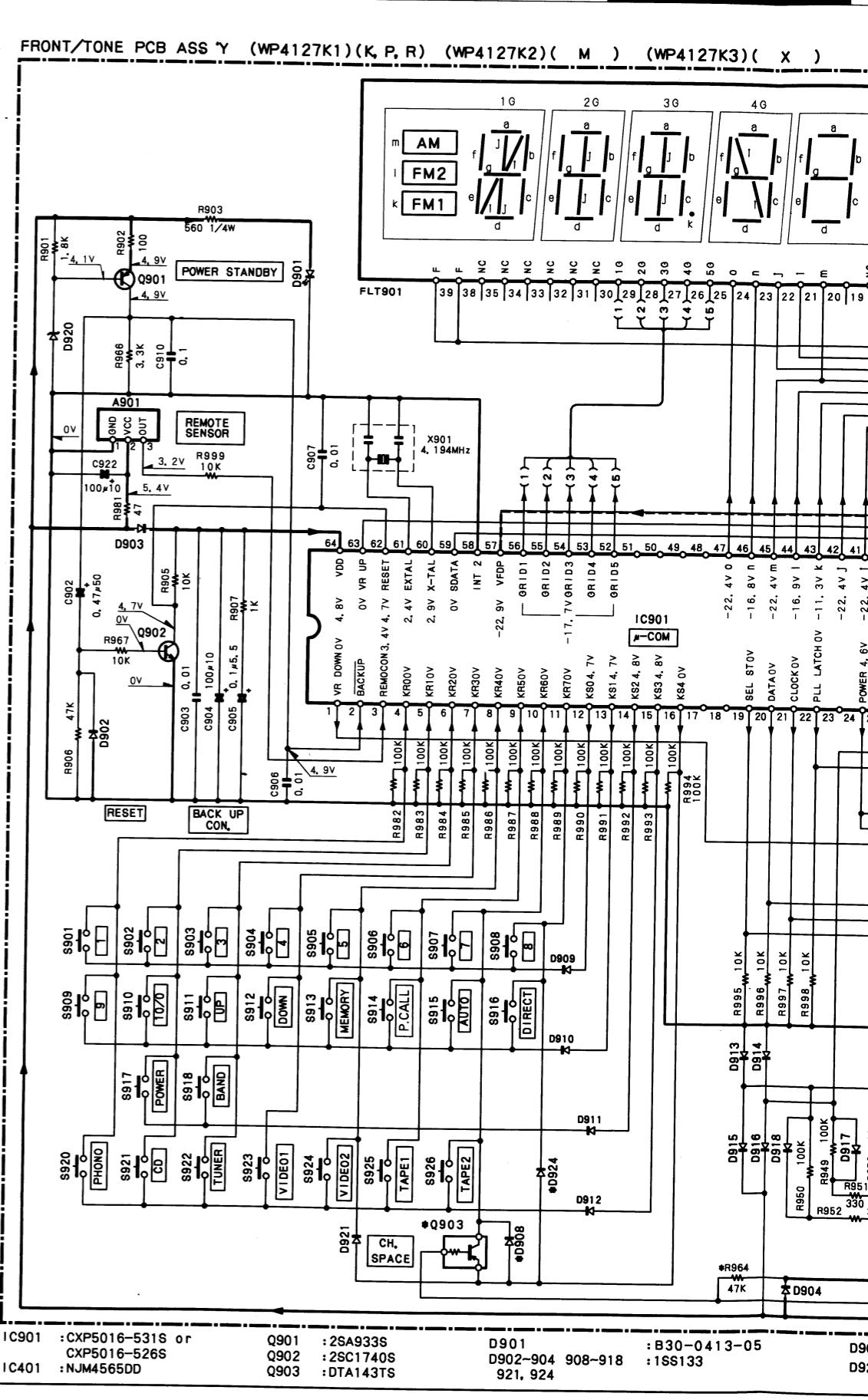
AUSTRALIA X NO YES NO



Q812	R835	R865	R866	R867	R868	SW801	C852	C853	C864	C865	C854	C855
NO	15K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0, 022 $\mu$ F	0, 022 $\mu$ F
YES	39K	YES	YES	YES	YES	YES	YES	YES	YES	YES	0, 015 $\mu$ F	0, 015 $\mu$ F
NO	39K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0, 015 $\mu$ F	0, 015 $\mu$ F

FRONT STAGE 200 1000

FRONT/TONE PCB ASS 'Y						
DESTINATION		Q903	D908	D924	R964	C908
COUNTRY	ABB,	NO	NO	YES	NO	YES
U. S. A.	K	NO	NO	YES	NO	YES
CANADA	P	NO	NO	YES	NO	YES
GENERAL MARKET	M	YES	NO	NO	YES	NO
AUSTRALIA	X	NO	YES	NO	NO	NO



K

L

M

O

P

N

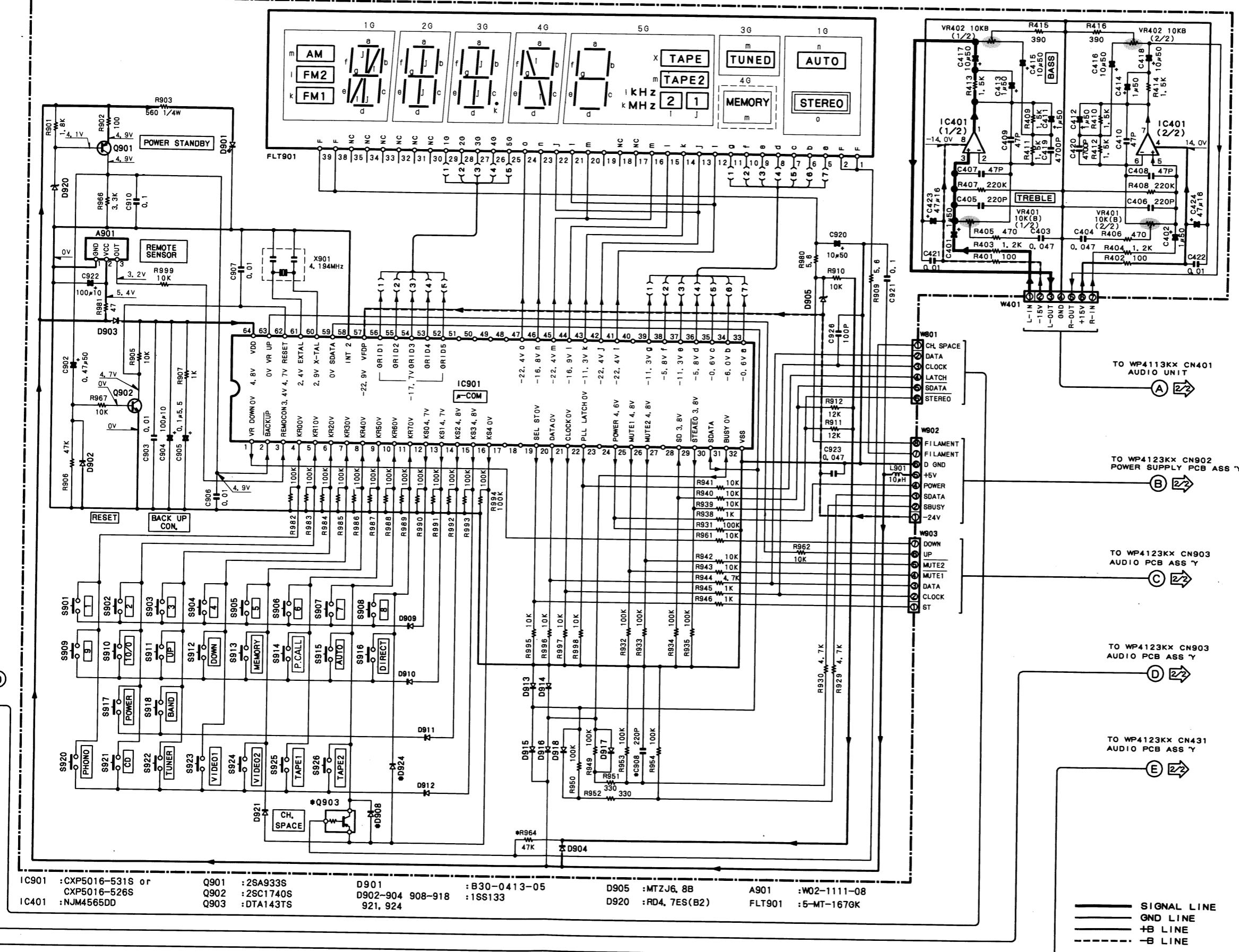
Q

R

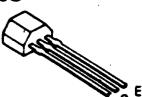
S

T

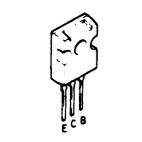
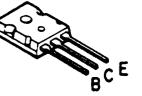
FRONT/TONE PCB ASS 'Y (WP4127K1)(K, P, R) (WP4127K2)( M ) (WP4127K3)( X )

2SC2235Y  
2SC2878B

2SD882

DTA143TS  
2SA933S  
2SC1740S

2SC4137

2SB1470  
2SD2222

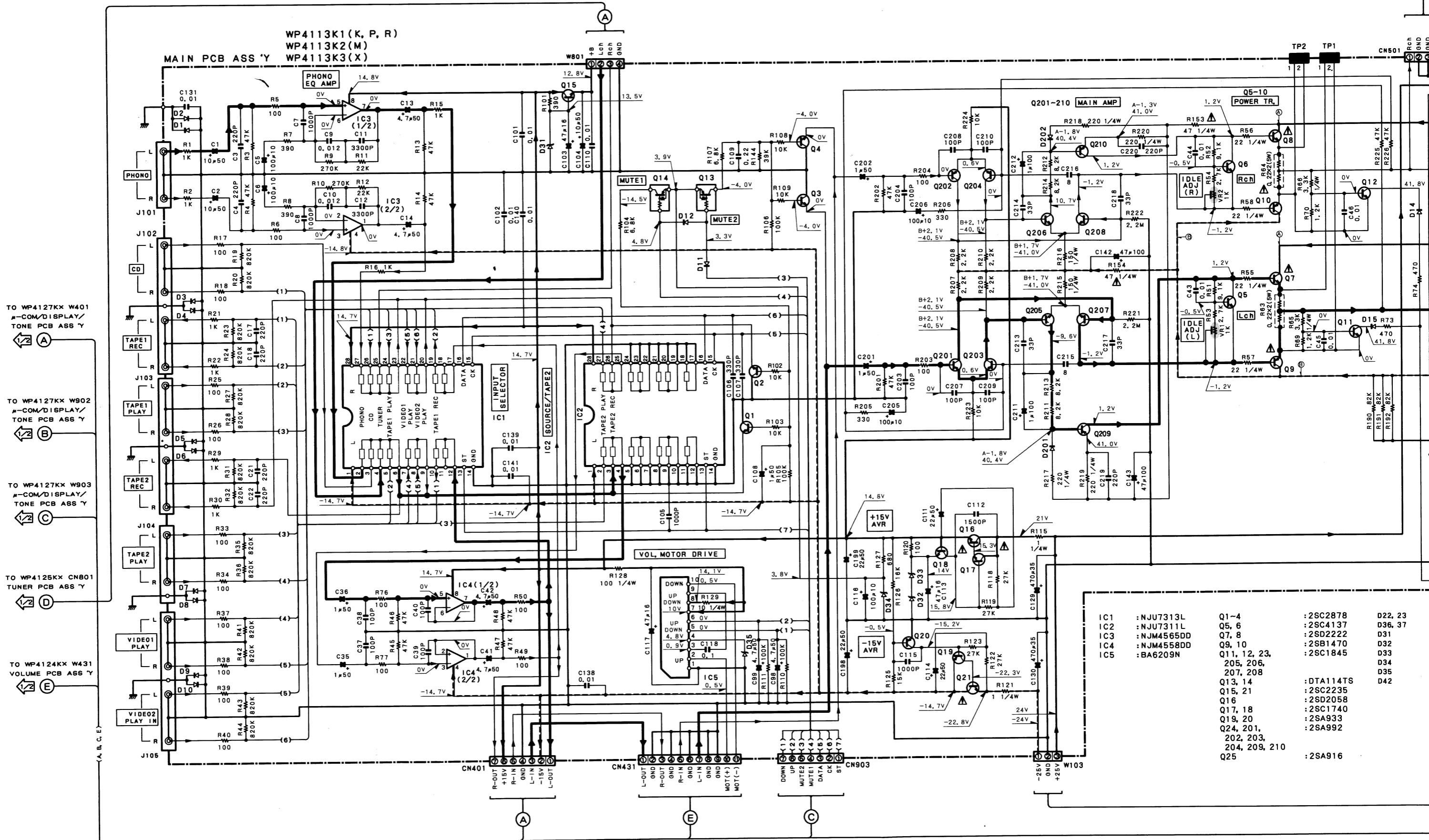
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

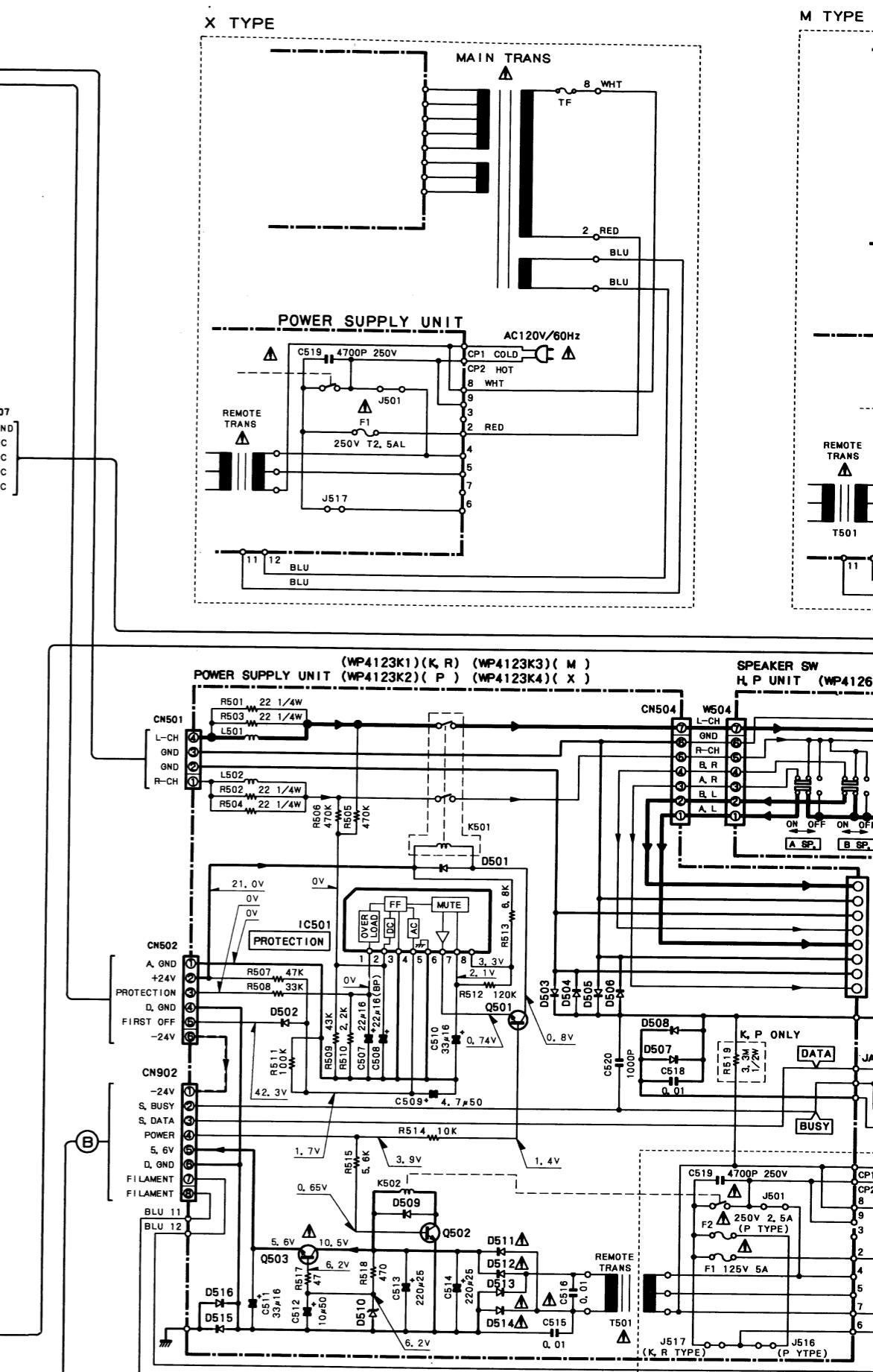
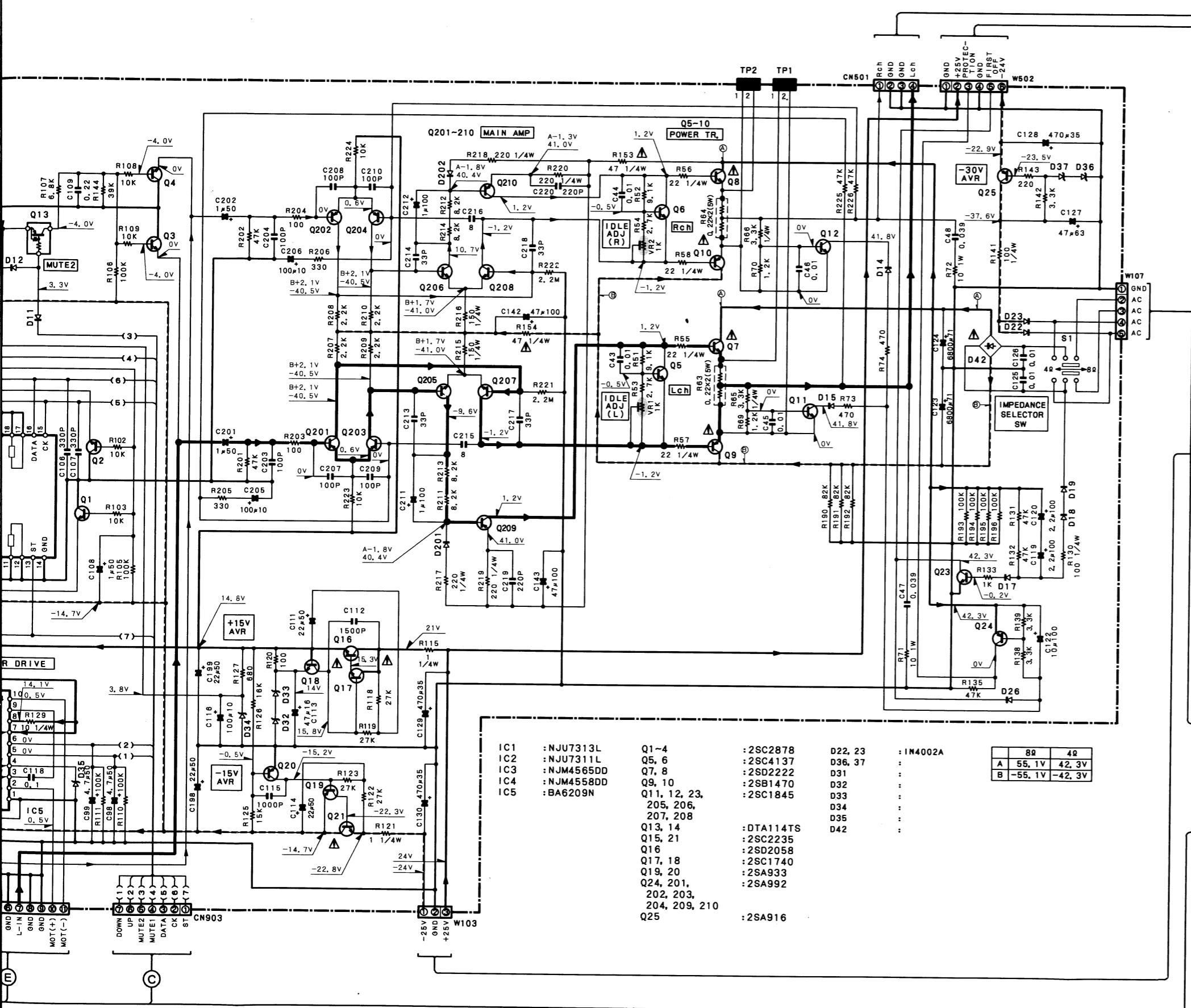
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to part list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage current or resistance measurements shall be carried out (exposed parts are acceptable insulated from the supply circuit) before the appliance is returned to the customer.

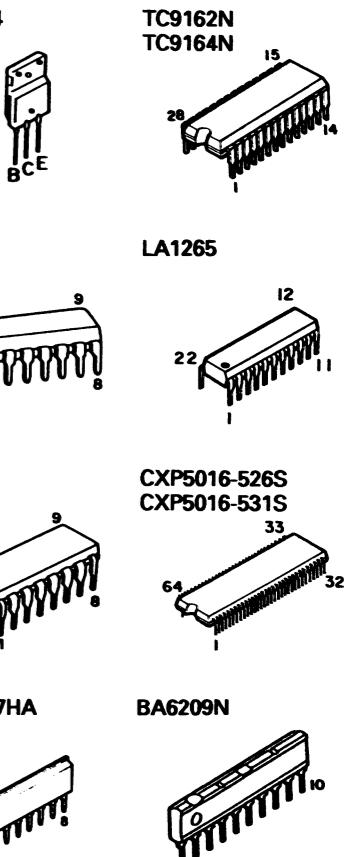
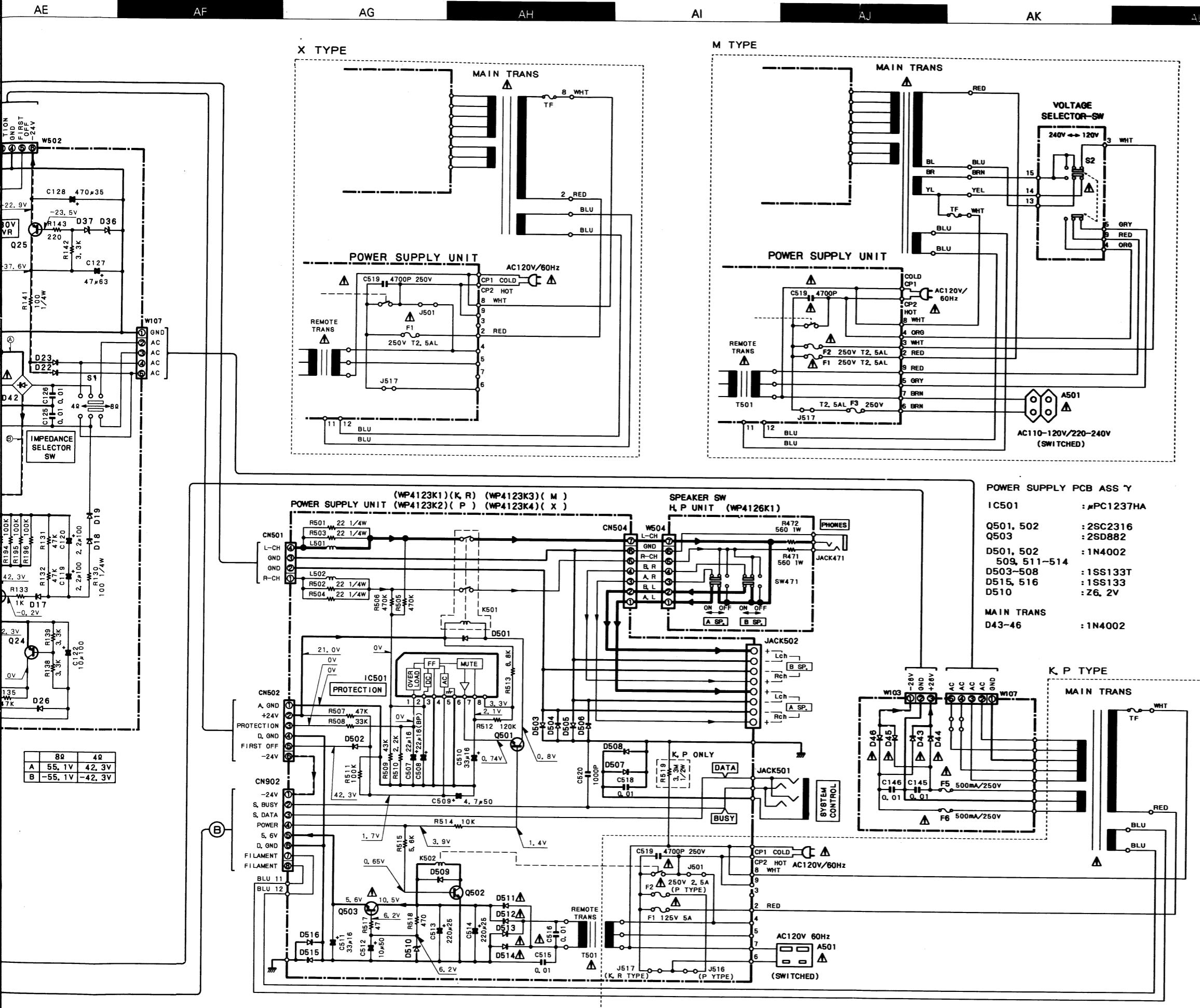
1/2 (Except E, T)

Y05-2880-10

KR-A5060  
KENWOOD







- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

2/2 (Except E, T)

Y05-2880-10

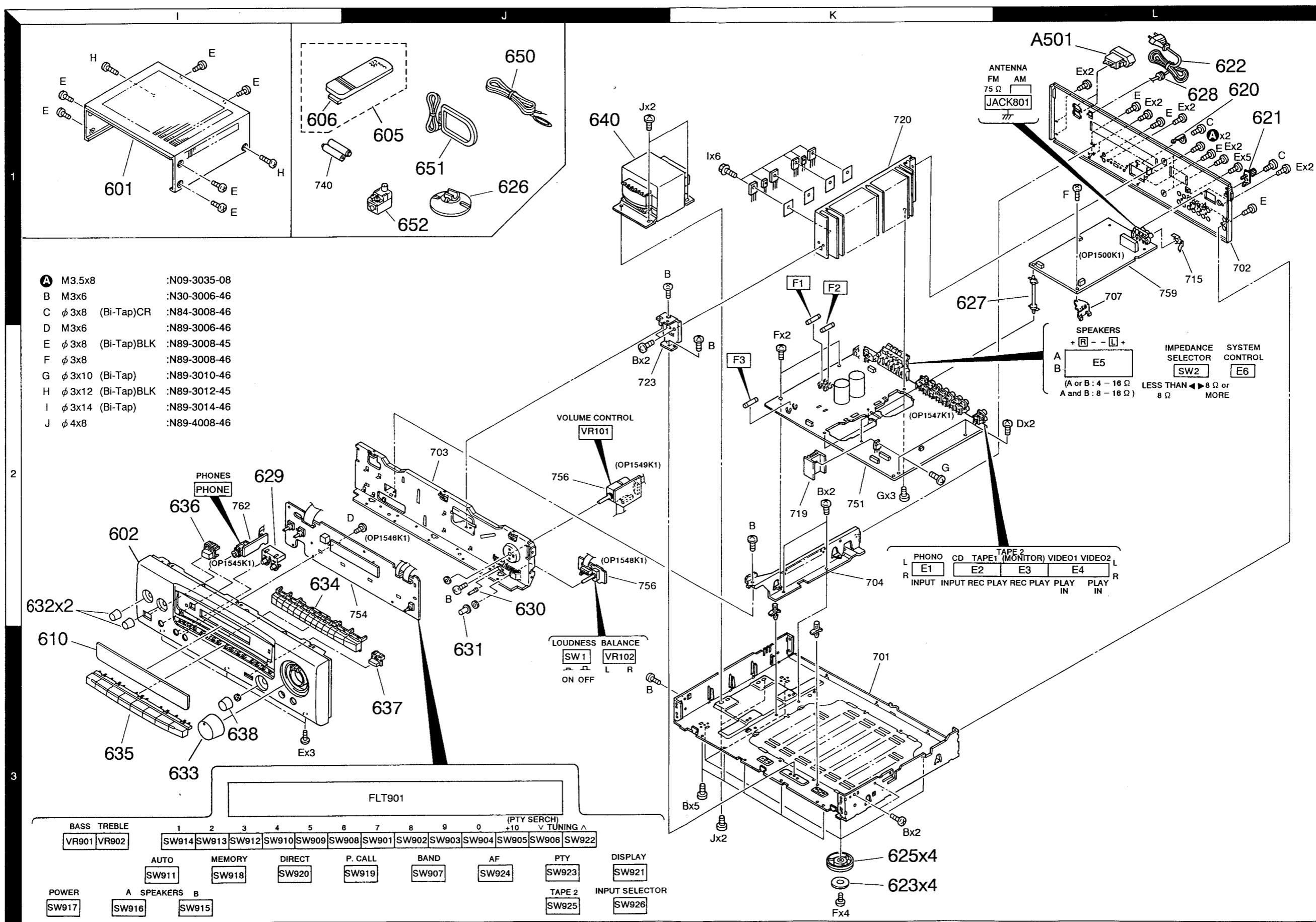
# KR-A5060

## KENWOOD

# KR-A4060/A5060

## KR-A4060/A5060

### EXPLODED VIEW (UNIT)



- New Parts
- Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht ausgeliefert.

\* New Parts  
Parts without **Parts No.** are not supplied.  
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.  
Teile ohne **Parts No.** werden nicht beliefert.

1

Ref. No.	Part No.	Address	Parts No.	部品番号	Description	部品名 / 规格	規格	Desti- nation 出	Re- mark 考
<b>KR-A4060</b>									
601	1I	*	A01-3167-08	METALLIC CABINET					
602	2I	*	A50-033-08	FRONT PANEL					
605	1J	*	A70-085-08	REMOTE CONTROL ASSY					
606	1I	*	A09-0170-08	BATTERY COVER					
610	3I	*	B10-2040-08	FRONT GLASS					
620	1L	*	B21-0031-08	GND TERMINAL					
-	-	*	B46-0122-23	WARRANTY CARD					
-	-	*	B46-0143-13	WARRANTY CARD					
-	-	*	B60-0808-08	INSTRUCTION MANUAL (EN)					
-	-	*	B60-0581-08	INSTRUCTION MANUAL (F/G/D)					
-	-	*	B60-0882-08	INSTRUCTION MANUAL (SP/IT)					
621	1L	*	E21-0023-08	GND TERMINAL ASSY					
622	1L	*	E30-0059-05	AC POWER CORD					
622	1L	*	E30-0218-05	AC POWER CORD					
△ A501	1L	*	E03-0055-05	AC OUTLET					
△ A501	1L	*	E03-0133-08	AC OUTLET					
623	3K	*	G13-0267-08	CUSHION					
-	-	*	H10-5655-08	FOAMED FIXTURE					
-	-	*	H50-1074-08	ITEM CARTON CASE					
-	-	*	H25-0332-04	PROTECTION BAG (ACCESSORY)					
-	-	*	H25-0232-04	PROTECTION BAG (MANUAL)					
-	-	*	H25-1532-08	PROTECTION BAG (UNITY)					
625	3K	*	J02-1099-08	FOOT					
626	1J	*	J19-2815-04	LOOP ANTENNA HOLDER					
627	1K	*	J19-3631-08	PCB HOLDER					
628	1L	*	J42-0198-08	AC CORD BUSHING					
629	2I	*	K29-5998-08	KNOB SPEAKERS					
630	2J	*	K27-2166-08	KNOB LOUDNESS					
631	3J	*	K29-4444-08	KNOB BALANCE					
632	3I	*	K29-5952-08	KNOB BASS, TREBLE					
633	3I	*	K29-5953-08	KNOB VOLUME ASSY					
634	2I	*	K29-5954-08	KNOB PRESET					
635	3I	*	K29-5955-08	KNOB FUNCTION					
636	2I	*	K29-5956-08	KNOB POWER					
637	3J	*	K29-5996-08	KNOB TAPE2					
638	3I	*	K27-2111-08	KNOB INPUT SELECTOR					
△ A60	1J	*	L07-1801-08	POWER TRANSFORMER					
△ A60	1J	*	L07-1802-08	POWER TRANSFORMER					
A	1L	*	N09-3035-08	TAPITE SCREW					
B	2J	*	N30-3006-46	PAN HEAD MACHIN SCREW					
C	1L	*	N84-3008-46	BINDING HEAD TAPITIE					
D	2J	*	N89-3006-46	BINDING HEAD TAPITIE					
E	1L, 3I	*	N89-3008-45	BINDING HEAD TAPITIE					
F	2K	*	N89-3008-46	BINDING HEAD TAPITIE					
G	2K	*	N89-3010-46	BINDING HEAD TAPITIE					
H	1K	*	N89-3012-45	BINDING HEAD TAPITIE					
I	1K	*	N89-3014-46	BINDING HEAD TAPITIE					

Y : PX (Far East, Hawaii) T : England E : Europe G : Germany  
 Y : AAFES (Europe) X : Australia M : Other Areas

**5 : KR A5606**  indicates safety critical components.

Ref. No.	Address	Parts No.	Description	Desti- nation mark 仕 向 考
參照番号	位 置	部 品 番 号	部 品 名 称	部 品 規 格
651	1J	T90-0184-08	LOOP ANTENNA	Re- mar- ks
652	1J	T90-0185-05	ANTENNA ADAPTER	
<b>ELECTRIC PARTS</b>				
LD901		B30-0413-05	LED (LT14213 (RED))	
C1		C91-0647-05	CERAMIC	0.01UF
C2	-4	CK45FF1H1032	CBRATIC	0.010UF
C5		CB04KW1E471M	ELECTR0	4.70UF
C6		CB04KW1H100M	ELECTR0	1.00UF
C7		CB04KW1A101M	ELECTR0	1.00UF
C8		CB04KW1H101M	ELECTR0	1.00UF
C9		CB04KW1H101M	ELECTR0	1.00UF
C10		CB04KW1V101M	ELECTR0	1.00UF
C11		CB04KW1H2R2M	ELECTR0	2.2UF
C12		CB04KW1C220M	ELECTR0	2.2UF
C13	14	CK45FF1H4732	CERAMIC	0.047UF
C15	16	C90-0366-05	ELECTR0	6.800UF
C17	16	C90-3561-05	ELECTR0	4.700UF
C17	18	CK45FF1H1032	CERAMIC	0.010UF
C22		CB04KW1H4R7M	ELECTR0	4.7UF
C23		CK45FF1H2232	CERAMIC	0.022UF
C24		CC45CH1H221J	CERAMIC	220PF
C31	-34	CK45FF1H1032	CERAMIC	0.010UF
C35		CE04KW1V101M	ELECTR0	1000UF
C36		CK45FF1H1042	CERAMIC	0.10UF
C37		CE04KW1C470M	ELECTR0	470UF
C38		CE04KW1H221M	ELECTR0	220UF
C39		CE04KW1V101M	ELECTR0	100UF
C40		CK45FF1H1042	CERAMIC	0.10UF
C99		CK45FF1H272K	CERAMIC	2700PF
C100		CC45CH1H102J	CERAMIC	1000PF
C101		CE04KW1H4R7M	ELECTR0	4.7UF
C103	-102	CC45CH1H1032	CERAMIC	1000PF
C107	108	CE04KW1A101M	ELECTR0	100UF
C109	110	CQ92FM1H332J	MYLAR	3300PF
C111	112	CQ92FM1H23J	MYLAR	
C113	114	CE04KW1H4R7M	ELECTR0	4.7UF
C115		CK45FF1H1032	CERAMIC	0.010UF
C117	118	CK45FF1H1042	CERAMIC	0.10UF
C119	120	CC45CH1H221J	CERAMIC	220PF
C131	134	CC45CH1H221J	CERAMIC	220PF
C135	136	CB04KW1C70M	ELECTR0	4.7UF
C137		CK45CH1H221J	CERAMIC	220PF
C138	139	CC45SL1H101J	CERAMIC	100PF
C140		CC45CH1H102J	CERAMIC	1000PF
C148		CE04KW1H101M	ELECTR0	1.0UF
C149	150	CK45FF1H1032	CERAMIC	0.010UF
C152		CB04BF1H101M	NP-BLEC	1.0UF
C153		CB04KW1H101M	ELECTR0	1.0UF
C154		CC45CH1H102J	CERAMIC	1000PF
C155		CB04KW1H101M	ELECTR0	1.0UF
C156		CQ92FM1C101M	MYLAR	100UF
C157		CQ92FM1H23J	MYLAR	0.027UF
C158		CE04KW1H4R7M	ELECTR0	4.7UF

KR-A4060/A5060

# PARTS LIST

2

Ref. No.	參照番号	Address	位 置	New Parts No.	Parts No.	Description	部品名／規格	Desti-nation	Re-marks
J	1J, 3J			N89-4008-46		BINDING HEAD	TAPITE SCREW	仕	備考
650	1J			T90-0176-05		T TYPE ANTENNA			
651	1J			T90-0184-08		100P ANTENNA			
652	1J			T90-0155-05		ANTENNA ADAPTER			
									KRA5060
601	1J			* A01-3167-08		METALLIC CABINET			
602	2J			* A60-0632-08		FRONT PANEL			
605	1J			* A70-0956-08		REMOTE CONTROL UNIT			
606	1J			A09-0170-08		BATTERY COVER			
610	3J			* B10-2040-08		FRONT GLASS			
620	1L			* E21-0031-08		GND TERMINAL			
-				* B46-0122-23		WARRANTY CARD			
-				* B60-1560-08		INSTRUCTION MANUAL (EN)			
-				* B66-1561-08		INSTRUCTION MANUAL (FG/D)			
-				* B60-1562-08		INSTRUCTION MANUAL (SP/IT)			
621	1L			E21-0023-08		GND TERMINAL ASSY			
622	1L			E30-0459-05		AC POWER CORD			
A501	1L			E03-0055-05		AC OUTLET			
623	3K			* G13-0267-08		CUSHION	FOOT		
-				* H10-5655-08		POLYSTYRENE FOAMED FIXTURE			
-				H25-0232-04		PROTECTION BAG (ACCESSORY)			
-				H25-0232-04		PROTECTION BAG (MANUAL)			
-				H25-1532-08		PROTECTION BAG (UNIT)			
625	3K			* H50-1027-08		ITEM CARTON CASE			
626	1J			* J02-1099-08		FOOT			
627	1L			J19-2815-04		ANTENNA HOLDER			
628	1L			J19-3631-08		UNIT HOLDER			
				J42-0198-08		AC CORD BUSHING			
629	2J			* K29-5998-08		KNOB SPEAKERS			
630	1J			K27-2166-08		KNOB LOUDNESS			
631	3J			K29-4444-08		KNOB BALANCE			
632	2J			K29-5952-08		KNOB BASS, TREBLE			
633	3J			K29-5953-08		KNOB VOLUME ASSY			
634	2J			K29-5954-08		KNOB PRESET			
635	3J			K29-5955-08		KNOB FUNCTION			
636	2J			K29-5956-08		KNOB POWER			
637	3J			K29-5996-08		KNOB TAPE2			
638	3J			K27-2111-08		KNOB INPUT SELECTOR			
640	2J			L07-0999-08		POWER TRANSFORMER			
A	1L			* N09-3035-08		TAPITE SCREW			
B	2J, 2K			N30-3066-06		PAN HEAD MACHIN SCREW			
C	1L			N84-3008-16		BINDING HEAD TAPITE SCREW			
D	2B			N89-3006-46		BINDING HEAD TAPITE SCREW			
E	1L, 3J			N89-3008-45		BINDING HEAD TAPITE SCREW			
F	2K, 3K			N89-3008-46		BINDING HEAD TAPITE SCREW			
G	2K			N89-3010-46		BINDING HEAD TAPITE SCREW			
H	1J			N89-3012-45		BINDING HEAD TAPITE SCREW			
I	1K			N89-3014-46		BINDING HEAD TAPITE SCREW			
J	1J, 3C			N89-4008-46		BINDING HEAD TAPITE SCREW			
650	1J			T90-0176-05		T TYPE ANTENNA			

Y : PX (Far East, Hawaii)	T : England	E : Europe	G : Germany	△ indicates safety critical components.
X : AAES (Europe)	X : Australia	M : Other Areas		
X : New Parts				Parts without Part No. are not supplied

Ref. No.	参照番号	Address	部品番号	Parts No.	Description	部品名ノ規格	Destination	Remarks
C205, 206	C207, 210	CC45SL1H471J	CERAMIC	470PF	J	10uV		
C209, 210	C211, 212	CE04KW1A71M	ELECTRO	470UF	6.3W	220UF		
C213, 214	C217, 218	CE04KW1D21M	CERAMIC	220PF	J	220PF		
C215, 216	C219, 220	CC45SL1H680J	CERAMIC	68PF	J	0.010UF	Z	
C221, 222	C223	CK45CH1H032Z	CERAMIC	22PF	J	22PF		
C227-230	C231-234	CC45CH1H020J	CERAMIC	220UF	6.3W	220UF		
C202, 803	C204, 805	CC45CH1H221J	CERAMIC	220PF	J	220PF		
C231-234	C301	CE04KW1H470M	ELECTRO	470UF	50uV	100UF		
C224	C224	CE04KW1H101M	ELECTRO	1000UF	50uV	1000UF		
C225	C227-230	CE04KW1H103M	ELECTRO	220UF	6.3W	220UF		
C231-234	C301	CQ92FM1H683J	MYLAR	0.068UF	J	0.068UF		
C206	C806	CK45FW1H223Z	CERAMIC	0.022UF	Z	16uV		
C807	C808	CE04KW1A471M	ELECTRO	470UF	50uV	1.1UF		
C809	C809	CC45CH1H330J	CERAMIC	33PF	J	33PF		
C810	C811	CK45CH1H102K	CERAMIC	1000UF	K	1000UF		
C811	C812	CK45FW1H03M	CERAMIC	0.010UF	M	0.010UF		
C813	C813	CE04KW1H010M	ELECTRO	470UF	16uV	15PF		
C814	C814	CQ92FM1H270M	ELECTRO	1.1UF	50uV	4.7UF		
C815	C815	CE04KW1H223J	MYLAR	0.022UF	J	2.2UF		
C816	C817, 818	CK45FW1H103M	ELECTRO	1.0UF	50uV	3.3UF		
C819	C820	CC45CH1H150J	CERAMIC	0.047UF	Z	0.022UF	Z	
C821	C821	CE04KW1H03M	MYLAR	0.015UF	J	0.015UF	Z	
C822	C822	CQ92FM1H153J	CERAMIC	0.122UF	J	0.122UF	Z	
C823	C823	CK45FW1H232Z	CERAMIC	10UF	M	10UF	1.6WV	
C825-828	C829	CE04KW1C100M	ELECTRO	470UF	1.6WV	470UF		
C830	C831-833	CK45FW1H474M	CERAMIC	0.47UF	50uV	0.47UF		
C834	C835	CK45FW1H103M	MYLAR	0.010UF	J	0.010UF		
C836	C837	CE04KW1H101M	ELECTRO	1.0UF	50uV	1.0UF		
C840	C838, 839	CC45CH1H101J	CERAMIC	100PF	J	100PF		
C841	C842, 843	CQ92FM1H103J	MYLAR	4.7UF	J	4.7UF		
C844, 845	C844, 845	CE04KW1H101M	ELECTRO	1.0UF	50uV	1.0UF		
C846, 847	C846, 847	CC45CH1H101J	CERAMIC	100PF	J	100PF		
C848, 849	C848, 849	CQ92FM1H103J	MYLAR	5.0UF	K	5.0UF		
C850	C850	CE04KW1H100M	ELECTRO	10UF	16WV	10UF		
C851	C851	CC45SL1H181J	CERAMIC	1.80PF	J	1.80PF		
C852	C852	CE04KW1H2R2M	ELECTRO	2.2UF	J	2.2UF		
C853	C853	CQ92FM1H103J	MYLAR	3.900UF	K	3.900UF		
C854	C854	CC45SL1H03M	CERAMIC	0.010UF	M	0.010UF		

KR-A4060/A5060

## **PARTS LIST**

KR-A4060/A5060

## **PARTS LIST**

4

## PARTS LIST

6

× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

5

× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address	Parts No.	Description	部品名／規格	Desti- nation 付	Re- marks 付
C852		CK45F1H103M	CERAMIC	0.010UF M		
C853, 854		CC45CH1H220J	CERAMIC	22PF J	L803	L33-0381-08
C855		CC45F1H147K	CERAMIC	470PF K	L804	L30-0904-08
C856		CC45SL1H221J	CERAMIC	220PF J	L805	L30-0905-08
C857, 858		CC45F1H101J	CERAMIC	100PF J	L806	L30-0906-08
C859		CEO4KV1H021M	ELECTRO	0.1UF 50V	L807	L39-1323-08
C860		CK45F1H103M	CERAMIC	0.010UF M		
C861		CK45F1H103M	ELECTRO	47UF 16V		
C862		CK45F1H103M	CERAMIC	0.010UF M		
C863, 864		CEO4KV1C100M	ELECTRO	100F 16V		
C865, 866		CK45F1H103M	CERAMIC	0.010UF M		
C868		CC45SL1H220J	CERAMIC	27PF J	▲ T1	L40-1091-17
C869		CC45F1H103Z	CERAMIC	0.010UF Z	▲ T1	L07-0825-08
C871		CC45SL1H271J	CERAMIC	270PF J	X801	L78-0616-08
C872		CEO4KV1C100M	ELECTRO	100F 16V	X802	L77-2126-08
C873		CK45F1H103M	CERAMIC	0.010UF M		
C874		CK45SL1H270J	CERAMIC	27PF J		
C875		CK45F1H103M	CERAMIC	0.010UF M		
C877, 878		CEO4KV1C100M	ELECTRO	100F 16V		
C879, 880		CK45F1H103M	CERAMIC	0.010UF M	G	N89-3010-46
C903, 904		CEO4KV1C350M	ELECTRO	33UF 16V	CP1 , 2	R90-0167-05
C905		CK45F1H487M	CERAMIC	4.70UF 50V	R3	RD14GBE101J
C906		C9-1827-05	ELECTRO	0.1UF 5.5V	R31	RD14GBE101J
C907		CEO4KV1A101M	ELECTRO	100UF 10V	R32	RS14DB3122J
C908		CK45F1H103M	CERAMIC	0.010UF M		
C911, 912		CK45F1H103Z	CERAMIC	0.010UF Z	R177	FL-PROOF RD
C913, 914		CK45F1H223K	CERAMIC	0.022UF K	R217	FL-PROOF RD
C921, 922		CEO4KV1H487M	ELECTRO	4.7UF 50V	R229	FL-PROOF RD
C923, 924		C9Q2M1H153J	MYLAR	0.015UF J	R245	FL-PROOF RD
C925, 926		C9Q2M1H683J	MYLAR	0.068UF J	R249	FL-PROOF RD
C927, 928		CK45F1H822M	CERAMIC	0.0082UF M	R250	FL-PROOF RD
C929, 930		CC45SL1H220J	CERAMIC	22PF J	R253	FL-PROOF RD
C931, 932		CC45F1H101J	CERAMIC	100PF J	R255	FL-PROOF RD
C933, 934		C9Q2M1H333J	MYLAR	0.033UF J	R824	FL-PROOF RD
C946		CK45F1H103Z	CERAMIC	0.010UF Z	R827	FL-PROOF RD
C950		CK45F1H103M	CERAMIC	0.010UF M	R840	FL-PROOF RD
E1		E70-0035-08	PHONE JACK	PHONO	R851	FL-PROOF RD
E2		E70-0037-08	PHONE JACK	CD, TAPE1	R866	FL-PROOF RD
E3, 4		E70-0038-08	PHONE JACK	TAPE2, VIDEO1, 2	VR101	FL-PROOF RD
E5		E70-0004-08	LOCK TERMINAL BOARD	LOCK TERMINAL BOARD	VR102	FL-PROOF RD
E6		E11-0188-05	MINIATUA PHONE JACK	MINIATUA PHONE JACK	VR201, 202	FL-PROOF RD
JACKBO1	21	E70-0023-08	TERMINAL BOARD ANTENNA	TERMINAL BOARD ANTENNA	VR801	R12-1066-05
PHONE		E11-0263-08	PHONE JACK	PHONE JACK	VR802	R12-1053-05
F1	1J	F05-1623-05	FUSE SEMIC	T1.6A/250V	VR901, 902	R32-0012-08
F1	1J	F06-2021-05	FUSE SEMIC	T2A/250V	▲ K1	R32-0012-08
F2	1J	F05-2025-05	FUSE SEMIC	T2.5A/250V	SW1 , 3	R32-0012-08
F3	2J	F06-0222-05	FUSE SEMIC	T1A/250V	SW2	R32-0012-08
-		J13-0084-08	FUSE CLIP		SW901-925	S62-0032-08
CF801, 802		L72-0075-08	CERAMIC FILTER	10.7MHz	SW926	S70-0030-08
L201, 202		L39-1303-08	INDUCTOR	0.15uH	D1	S60-0030-08
L301		L33-1379-08	INDUCTOR	22uH	D2	155133
L801		L40-1091-17	SMALL FIXED INDUCTOR	1uH	D3	1N4002A
L802		L39-1322-08	C0IL		D4	1N4002A

L: Scandinavia	K: USA	P: Canada	R: Mexico	L: Scandinavia	K: USA	P: Canada	R: Mexico
Y: PX (Far East, Hawaii)	T: England	E: Europe	L: Scandinavia	Y: PX (Far East, Hawaii)	T: England	E: Europe	L: Scandinavia
X: Australia	M: Other Areas			X: Australia	M: Other Areas		
Y: AAFES (Europe)		△ indicates safety critical components.		Y: AAFES (Europe)		△ indicates safety critical components.	

4: KR-A4060

5: KR-A5060

△ indicates safety critical components.

△

L: Scandinavia

M: Other Areas

Y: AAFES (Europe)

Y: AAFES (Europe)

△ indicates safety critical components.

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# KR-A4060/A5060

## SPECIFICATIONS

### KR-A4060

#### *Audio section*

##### Rated power output

(IEC/NF) from 63Hz~12,500Hz	
0.7% T.H.D. at 8Ω	60W + 60W
(DIN) 1,000Hz at 8Ω	60W + 60W
1,000Hz at 4Ω	55W + 55W

##### Total harmonic distortion (1kHz, 8Ω) 0.01% at 40W

##### Signal to noise ratio

Phono (MM)	56dB (DIN, 50mW output)
CD, TAPE, VIDEO	57dB (DIN, 50mW output)

##### Input sensitivity/impedance

Phono (MM)	2.5mV/47kΩ
CD, TAPE, VIDEO	200mV/47kΩ

##### Tone controls

BASS	±10dB (at 100Hz)
TREBLE	±10dB (at 10kHz)

##### Loudness control at 30dB

Volume level	+9dB (at 100Hz)
--------------	-----------------

### *FM tuner section*

##### Tuning frequency range

87.5MHz~108MHz

##### Usable sensitivity (DIN at 75Ω)

MONO	1.1μV
STEREO	4.5μV

##### Total harmonic distortion at 1kHz (DIN)

MONO	0.15%
STEREO	0.5%

##### Signal to noise ratio (DIN weighted at 1kHz)

MONO	68dB (65.2dBf input)
STEREO	61dB (65.2dBf input)

##### Selectivity (DIN ±300kHz)

53dB

##### Stereo separation (DIN) at 1kHz

40dB

##### Frequency response

30Hz~15kHz, +0.5dB, -2.0dB

### *AM tuner section*

##### Tuning frequency range

531kHz~1,602kHz

##### Usable sensitivity

12μV (400μV/m)

##### Total harmonic distortion

0.3%

##### Signal to noise ratio (at 30% mod. 1mV input)

50dB

##### Selectivity

30dB

### *General*

##### Power consumption

120W

##### AC outlet (Switched)

2 : (total 200W max.)

##### Dimensions

W : 440mm x H : 133mm X D : 350mm

##### Weight (net)

6.8kg

### KR-A5060

#### *Audio section*

##### Rated power output

(IEC/NF) from 63Hz~12,500Hz	
0.7% T.H.D. at 8Ω	100W + 100W
(DIN) 1,000Hz at 8Ω	100W + 100W
1,000Hz at 4Ω	90W + 90W

##### Total harmonic distortion (1kHz, 8Ω) 0.01% at 50W

##### Signal to noise ratio

Phono (MM)	56dB (DIN, 50mW output)
CD, TAPE, VIDEO	57dB (DIN, 50mW output)

##### Input sensitivity/impedance

Phono (MM)	2.5mV/47kΩ
CD, TAPE, VIDEO	200mV/47kΩ

##### Tone controls

BASS	±10dB (at 100Hz)
TREBLE	±10dB (at 10kHz)

##### Loudness control at 30dB

Volume level	+9dB (at 100Hz)
--------------	-----------------

### *FM tuner section*

##### Tuning frequency range

87.5MHz~108MHz

##### Usable sensitivity (DIN at 75Ω)

MONO	1.1μV
STEREO	4.5μV

##### Total harmonic distortion at 1kHz (DIN)

MONO	0.15%
STEREO	0.5%

##### Signal to noise ratio (DIN weighted at 1kHz)

MONO	68dB (65.2dBf input)
STEREO	61dB (65.2dBf input)

##### Selectivity (DIN ±300kHz)

53dB

##### Stereo separation (DIN) at 1kHz

40dB

##### Frequency response

30Hz~15kHz, +0.5dB, -2.0dB

### *AM tuner section*

##### Tuning frequency range

531kHz~1,602kHz

##### Usable sensitivity

12μV (400μV/m)

##### Total harmonic distortion

0.3%

##### Signal to noise ratio (at 30% mod. 1mV input)

50dB

##### Selectivity

30dB

### *General*

##### Power consumption

180W

##### AC outlet (Switched)

2 : (total 200W max.)

##### Dimensions

W : 440mm x H : 133mm X D : 350mm

##### Weight (net)

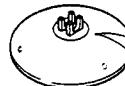
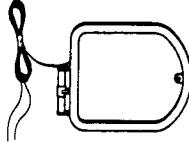
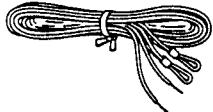
8.2kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

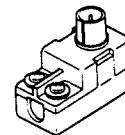
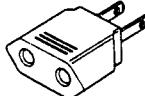
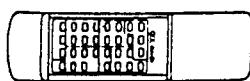
# KR-A4060/A5060

## ACCESSORIES

- FM indoor antenna ..... 1  
(T90-0182-05 : **Except E, T type**)  
(T90-0176-05 : E, T type)
- AM loop antenna ..... 1  
(T90-0184-08)
- Loop antenna holder ..... 1  
(J19-2815-04)



- Remote control ass'y (RC-R5030) .. 1  
(A70-0985-08)
- AC plug adaptor ..... 1  
(E03-0115-05 : **Except E, T type only**)
- Antenna adaptor (75Ω/300Ω) ..... 1  
(T90-0185-05 : **E, T type only**)



- Battery cover (A09-0170-08)
- Batteries (R6/AA) ..... 2



*Except for U.K., Europe and Australia.  
For the unit with a European AC plug in areas other than Europe.*

*For U.K. and Europe.*

### Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

## KENWOOD CORPORATION

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